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Evaluation of Restorative Maintenance on 1975 and 1976 Light-Duty Vehicles in Detroit, Michigan

Olson Labs, Inc, Livonia, MI

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EVALUATION OF RESTORATIVE MAINTENANCE ON 1975 AND 1976 LIGHT-DUTY VEHICLES IN DETROIT, MICHIGAN

U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Air and Waste Management
Office of Mobile Source Air Pollution Control
Emission Control Technology Division
Ann Arbor, Michigan 48105

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Each vehicle was tested initially in the as-received condition. Various stages of restorative maintenance and retesting were then performed in an attempt to bring vehicles which failed the emission standards into compliance. Selected vehicles were also subjected to a series of specified maladjustments or disablements in order to evaluated the individual and combined effects of these conditions on emissions and fuel economy.

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Modification No. 2

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FOREWORD

Average emission factors are used in assessing the degrees to which in-use vehicles comply with applicable standards, developing emissions and transportation control strategies, and forecasting ambient air quality. This restorative maintenance program was initiated to collect exhaust emission data which would identify reasons for low-mileage in-use vehicles failing emission standards, and to quantify the individual and combined effects of defects, disablements, and maladjustments on exhaust emissions and fuel economy.

ABSTRACT

A study of exhaust emissions from 100 consumer-owned 1975-1976 model-year light-duty vehicles equally represented by the big three manufacturers was performed by Olson Laboratories, Inc., in Livonia, Michigan to determine the relationship of emissions to the maintenance condition of the vehicles. All vehicles were tested using the 1975 Federal Test Procedure. Additional emission tests were conducted including Highway Fuel Economy Tests and several short-cycle tests.

Each vehicle was tested initially in the as-received condition. Various stages of restorative maintenance and retesting were then performed in an attempt to bring vehicles which failed the emission standards into compliance. Selected vehicles were also subjected to a series of specified maladjustments or disablements in order to evaluate the individual and combined effects of these conditions on emissions and fuel economy.

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Section 1

INTRODUCTION

This report describes a program conducted by Olson Laboratories, Inc., in the Detroit, Michigan area which sought to determine the reasons why in-use vehicles fail to meet the emission standards under which they were certified. This project was performed under a modification to Olson's FY75 Emission Factor Test Program contract (EPA Contract 68-03-2379, Modification No. 2). A series of tests were performed on 100 randomly-selected, privately-owned 1975 and 1976 model-year vehicles. Each test sequence consisted of a 1975 FTP, a Highway Fuel Economy Test, and several short CVS and steady-state volumetric tests. Vehicles were tested in the as-received condition and after several stages of corrective maintenance. In addition, vehicles selected by the Project Officer were subjected to selected maladjustments and/or disablements to further establish the relationship between adjustments and emissions. This effect is known as the Restorative Maintenance Evaluation.

Section 2 of this report describes the objectives, experimental design, and conduct of the program. Section 3 presents summary results. Detailed listings of data are presented in the Appendices by vehicle and test number. Data packets and punched cards with EPA-defined data formats were submitted to the Project Officer.

Section 2

TECHNICAL DISCUSSION

2.1 PROGRAM OBJECTIVES

The primary objectives of the emission factor programs include providing updated light-duty vehicle emission data for use in analyzing various mobile source control strategies, assessing the impact of mobile sources with advanced emission systems on air quality, and providing data to assess the effectiveness of inspection/maintenance programs in reducing mobile source contributions to air pollution.

The objectives of this program in Detroit, Michigan were to collect exhaust emission data which would identify reasons for low mileage in-use vehicles failing emission standards, and to quantify the individual and combined effects of defects, disablements and maladjustments on exhaust emissions and fuel economy.

2.2 PROGRAM DESIGN

This program was designed to obtain data on 100 randomly selected 1975-1976 model-year vehicles equally represented by the big three manufacturers which were less than 12 months old and had accumulated less than 15,000 miles. Each vehicle was tested using the 1975 Federal Test Procedure (FTP), the Highway Fuel Economy Test (HFET), the Federal Short Cycle, the New York/New Jersey Composite ACID Test, the 2-Speed Idle Test, the Clayton Key Mode Test, and the Federal 3-Mode Test.

The test fleet consisted of popular models and engines. The fleet was distributed as follows:

General Motors Corporation - 34 vehicles
Ford Motor Company - 33 vehicles
Chrysler Corporation - 33 vehicles

Each vehicle was tested in the as-received condition and then subjected to several cycles of inspection, corrective maintenance, and retest using the complete sequence of tests identified above. Each cycle of maintenance was generally identified and defined as follows:

- Test 1 - As-received baseline
- Test 2 - Correction of maladjustments or disablement of emission-related components except idle speed and mixture
- Test 3 - Adjustment of idle speed and mixture (CO)

- Test 4 - Performance of major tune-up and correction of failed emission components

Vehicles which met the emission standards and were found to be in proper tune were eligible for further testing to explore the individual and combined emission impacts of various maladjustments and disablements. Selected vehicles were subsequently subjected to specified maladjustments of ignition timing, choke setting, idle mixture, disablement of EGR, and rerouting of distributor vacuum lines. These maladjustments were performed on vehicles selected by the Project Officer. Figure 1 provides a flowchart for the vehicles in this program.

2.3 TEST VEHICLE PROCUREMENT

The EPA provided a test vehicle listing which included model-year, make, displacement, vehicle size, transmission type and number of carburetor venturis. The listing defined by vehicle number all of the above descriptors, precisely defining which vehicles should be tested. Vehicles were selected by the EPA on a sales-weighted basis.

The contract also required that test vehicles be obtained not more than 15 miles (25 km) outside the city limits of the specified city. Other requirements applicable to test vehicle procurement were as follows:

- 100 percent of sample to be the listed make and model-year.
- 90 percent of sample to be the listed make, model-year, and engine displacement.
- 70 percent of sample to be an exact match to the EPA-supplied vehicle list.

In addition, rental or leased vehicles were not selected. Test vehicles were not obtained from automotively-oriented organizations; e.g., sportscar clubs.

2.3.1 Test Vehicle Selection

The fleet of test vehicles was procured primarily by obtaining registration lists and making direct mailings to prospective test vehicle owners. The direct mailing included a description of the program, program incentives and a postage-paid return card for those owners who desired to participate. The cards were designed so that vehicle identification information, such as engine size, transmission type, age and mileage could be filled in by the vehicle owner. Upon receipt of the returned cards, this information was used in the selection of test vehicles in accordance with the match requirements. Owners of suitable vehicles were then contacted by telephone and scheduled for test. Some vehicles were also obtained by advertisements in the metropolitan Detroit newspapers.

2.3.2 Incentives

The incentives permitted by the contract were up to a $100 savings bond depending on the extent of testing, a full tank of fuel when the test vehicle

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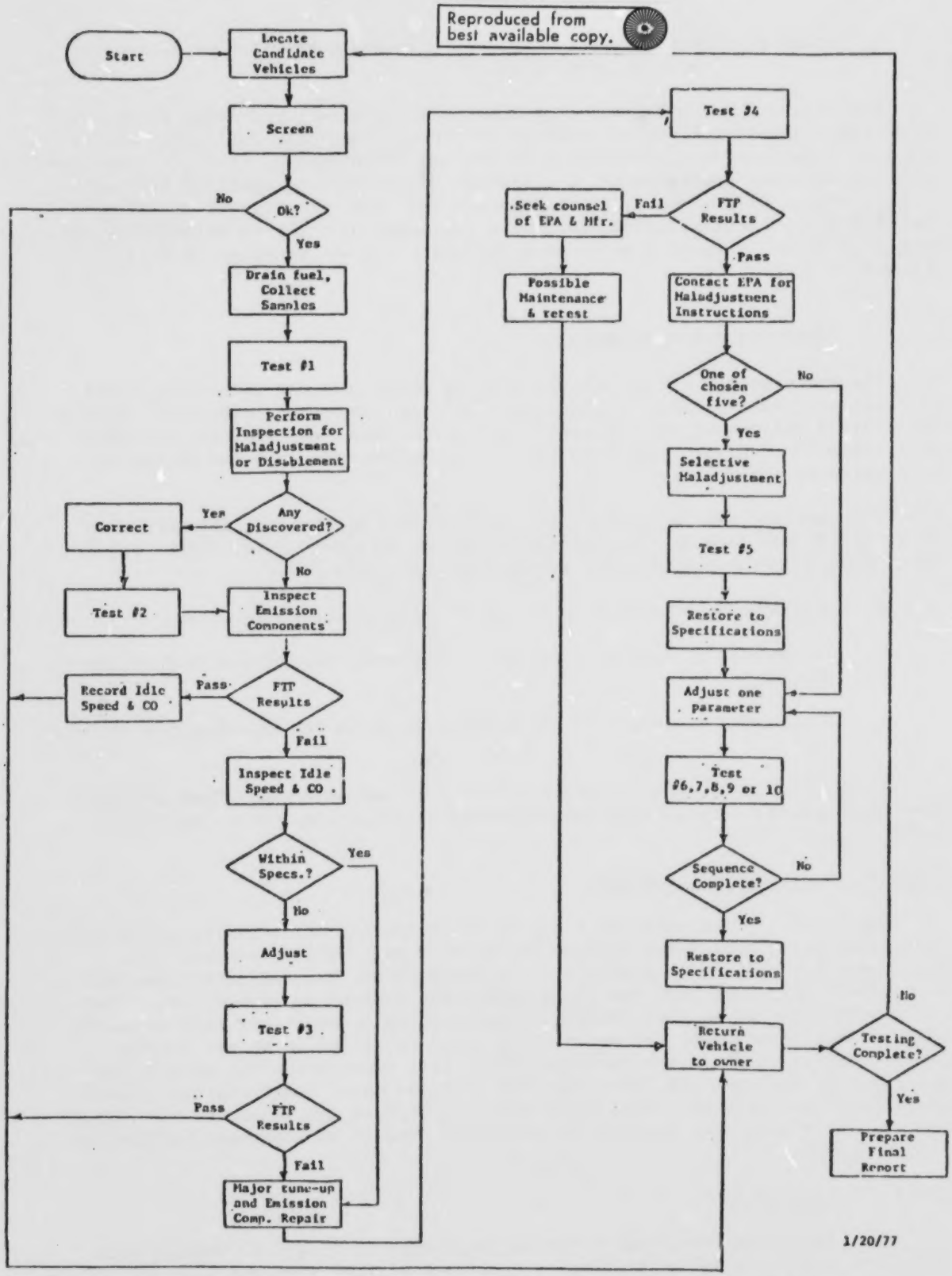


Figure 1. RESTORATIVE MAINTENANCE EVALUATION TEST PLAN

was returned to the owner and the use of a late-model, fully-insured loan vehicle during the time the test vehicle was in the possession of the laboratory.

2.3.3 Test Vehicle Handling

A file containing the owner and vehicle information was established and utilized to schedule vehicles for testing. Owners were contacted by telephone. At this time, information submitted on the data card was confirmed and any missing information was obtained. Vehicles which met with program design requirements, or approved substitute vehicles, were then scheduled for testing.

Upon delivery at the test site, each vehicle was initially inspected to confirm compliance with sample requirements. In a few cases, vehicles were rejected at this point because of improper engine or carburetor identification by the owners. In other situations, vehicles were rejected for exhaust system leakage or safety reasons. After preliminary inspections indicated that a vehicle was acceptable, loan vehicle agreement forms were completed, an EPA-designed questionnaire on vehicle use and maintenance was filled out by an interview with the owner. The vehicle was then scheduled for the pre-test operations to be performed and the vehicle was given a test time slot.

2.4 FACILITIES AND EQUIPMENT

2.4.1 Test Location

Olson Laboratories, Inc., operates a permanent facility in the Detroit metropolitan area. Testing for this contract was performed in this facility. The location of the facility is 11665 Levan Road, Livonia, Michigan 48150.

This facility contains approximately 26,000 square feet of laboratory/office space and provides two emission test cells. However, only one was equipped with the specified equipment; i.e., direct-drive dynamometer and six-bag CVS.

2.4.2 Constant Volume Samplers

One Olson six-bag CVS system with gas-to-water heat exchanger was used. Sample and background bag selection was automatically controlled by computer to select the proper bag set for each phase of the 1975 FTP. The computer also selected the bag set for the highway fuel economy cycle and the short CVS cycles.

2.4.3 Emission Analysis Console

One complete emission analysis console was designed and built by Olson. The console had push-button selection of zero, span and sample for each range of each instrument. The console had a built-in CL converter efficiency test unit and automatic sample line purge as required by the contract. The console contained the following instrument types:

Analyzer	Ranges
Bendix Model 8501-5C (CO)	0-100, 0-500ppm
Beckman 315B NDIR (CO)	0-.3%, 0-3%, 0-5%
Beckman 315B NDIR (CO_2)	0-4%, 0-8%
Teco 10A Chemiluminescent (NO_x)	0-100, 0-250, 0-1,000, 0-2,500ppm
Two Beckman 400 FID (HC)	0-50, 0-100 0-300, 0-1,000 0-3,000, 0-10,000ppm
Horiba GSM 300 (Raw HC)	0-400, 0-2,000ppm Hexane Equivalent
(Raw CO)	0-2%, 0-10%
Horiba MEXA 300A (Raw HC)	0-200, 0-1,000ppm Hexane Equivalent
(Raw CO)	0-0.5%, 0-5%

2.4.4 Laboratory Standard Calibration Gases

Laboratory standard calibration gases had been previously sent to the EPA Ann Arbor laboratory for analysis where concentrations were assigned to them. This standard set of gases was used for defining instrument calibration curves and assigning concentration values for the working gases. Each cylinder of standard gas and each working gas was equipped with a dedicated pressure regulator as specified by the contract. All gases were permanently plumbed to a quick-disconnect panel for ease in selecting the gas desired during calibration and testing.

2.4.5 Chassis Dynamometer

The test cell used for this program had a Clayton ECE-50 direct-drive variable inertia dynamometer permanently mounted in the floor which met the requirements of the contract to have 250-pound increments and 500-pound increments in the required inertia ranges. The ECE-50 had 17-1/4-inch roll spacing and 8-5/8-inch diameter rolls in compliance with the contract.

2.4.6 Miscellaneous Equipment

Miscellaneous equipment used in conjunction with the major items of equipment included the following:

- Two Texas Instrument Servowriter II Recorders were used with the analytical console.

- One Hewlett-Packard 2114A Mini Computer was used to generate all driver traces and control bag filling.

- A second HP 2114A Mini-Computer was used to calculate mass emission data.

- One Hewlett-Packard Model 7128-A-02-04-08-24-105-141-144 Driver's Aid.

- One Teco Model 100 NO_x Generator.

- One Sargeant Welch Continuous Flow Psychrometer, Model No. 542610 with continuous recording of wet/dry bulb temperatures by a dual-channel Rustrac Recorder Model No. 2163E.

- Hartzell Model No. N-24-DUW cooling fan placed in front of the vehicle for cooling during test.

- One Taylor Instrument Company Model No. 2314, 7-day continuous recording barometer.

- One Autoscan Model No. 4000 Engine Analyzer.

- One Rustrac Model No. 2163B continuous recording temperature recorder for soak area temperature.

- One Nova Mercurial Barometer.

- One Meriam 50 MC2-4(F) Laminar Flow Element for CVS calibration.

- One Mettler Model 1200 Balance used for weighing the propane cylinders for propane recovery tests.

- One Strobotach for dynamometer coastdown calibrations.

- Additional fans for catalyst and rear wheel cooling were Hartzell Model No. N-24-DUW.

- Wet/dry Bulb Recording Systems - Periodic checks using a sling psychrometer as a reference were made to verify calibration and accuracy.

- Miscellaneous Recorders - Other recorders were periodically checked for mechanical zero, Rustrac Recorders were checked against precision thermometers.

- Other auxiliary equipment was calibrated in accordance with manufacturer's procedures.

2.5 EQUIPMENT QUALIFICATION, CALIBRATION, AND CROSS-CHECK

This section describes the qualification, calibration, and cross-check procedures utilized by Olson and verified by EPA technical personnel to ensure that valid test data were generated throughout the test program. Initial qualification included complete demonstration of individual instrument calibration, stability, response time, modal transport time, zero air and nitrogen purity, CVS calibration, dynamometer calibration, and inspection of all daily, weekly and monthly log records.

Prior to the initial EPA inspection, Olson performed a qualification checkout which was defined in an eight-page Emission Laboratory Evaluation Criteria Document. The completed document and all related data were submitted to the EPA Project Officer. After review of the Olson qualification documentation, the Project Officer witnessed a verification of the qualification procedures prior to initiation of testing.

2.5.1 Constant Volume Sampler (CVS)

The CVS was calibrated with the laminar flow element using the basic procedures specified in the Federal Register. A copy of the calibration data was provided to the EPA Project Officer as a part of the qualification data package. Propane recovery tests were made after the calibration to confirm the accuracy of the calibration. Propane recovery tests were also made each day of testing to confirm continued calibration of the CVS system. The measured propane mass recovered by the CVS had to be within $\pm$2.0 percent of the injected mass as determined gravimetrically.

2.5.2 Emission Analysis Console

Calibration and qualification of the emission analysis console was performed as stipulated in the Federal Register and the Emission Laboratory Evaluation Criteria. The daily qualification checks were:

- Leak check of each instrument as well as the system.
- Zero, gain, tune as applicable to each instrument.
- Hang-up and leak checks for background and sample bags and sample line.
- Dilution air HC/CO concentration.
- Chemiluminescence vacuum and converter efficiency.
- FID fuel, air, sample pressures.
- Propane recovery test result.
- Working gas log, cylinder number, concentration, deflections, cylinder pressure.

In addition to the above daily checks, weekly checks were made for the following:

- o Calibration curve of each range of each instrument.
- o CO instrument response to wet CO_2.

Appropriate calibrations, leak checks, etc., were also made whenever maintenance was performed which could change instrument or system operation.

2.5.3 Chassis Dynamometer

The Clayton ECE-50 dynamometer was initially calibrated by the Clayton representative using manufacturer's equipment and procedures to calibrate the speed and horsepower meters. Coastdown techniques specified in the Federal Register were used to develop actual versus indicated horsepower curves for each inertia weight setting (1,750 through 5,500 pounds). The calibration of the dynamometer was confirmed bi-weekly or after any maintenance which might affect the curves. The speed meter was also checked using a strobotach on the dynamometer rolls during the bi-weekly coastdown checks. A log of all maintenance and calibration was maintained throughout the program. Special coastdown calibrations at 30 mph and 50 mph were performed for the Federal 3-Mode Test.

2.6 TEST PROCEDURES

2.6.1 Vehicle Preparation

All vehicles tested in this program were inspected upon receipt from the owner for the following:

- o Those items required to determine the match requirements such as make, model-year, transmission type, engine size, number of carburetor venturis, air conditioning, certain emission controls, and accumulated mileage.
- o A physical inspection of the vehicle's interior and exterior for damage when received.
- o An inspection to verify the vehicle was safe for operation on the dynamometer and that the exhaust system was not leaking or could not be readily repaired.

Fuel was drained and the tank was filled to 40 percent volume with test fuel. After the vehicle was filled with test fuel, it was scheduled for a 10-minute preconditioning drive over a street route prior to being placed into pretest soak. The soak period was a minimum of 12 hours and a maximum of 20 hours from key-off to key-on between 68°F and 86°F. A continuous record of the soak area temperature was maintained 24 hours per day to verify that the soak temperature limits applicable to each vehicle were met. Vehicles for which the soak temperature limits were violated were given another 10-minute preconditioning drive and placed back into soak. A modest vehicle driveability evaluation was conducted during the preconditioning drive.

2.6.2 Equipment Preparation

Emission test equipment was checked daily prior to the performance of emission tests. The emission analysis system was checked for leaks, zero and

gain settings where appropriate for each instrument, CVS inlet and outlet pressures as well as Delta P. Additional checks included background and sample bag leak checks and hydrocarbon hand-up, converter efficiency, and CVS calibration by propane recovery tests. In addition, the driver's aid and computer-generated driving trace were calibrated prior to and after each test. The dynamometer was warmed up using a nontest vehicle if it had not been used in the previous 2-hour period. During this warm-up period, the dynamometer speed indicator was checked against the driver's trace to ensure that both speed indications were identical.

The continuous wet/dry bulb system was checked on a periodic basis against a sling psychrometer to verify proper calibration.

The emission analysis console was left in the operating mode. All instruments were peaced in the sample mode position with continuous purge of filtered background air. Thus, the instrument console was at all times warmed up and ready for calibration and test. In the event that instrument maintenance required instrument shut off, a warm-up time of a minimum of 1 hour was used. In practice, the warm-up time was in excess of 1 hour since calibration checks were routinely performed after maintenance.

The CVS was normally not turned off during nontest hours. The blower was left in speed #1 and the temperature controller was normally left on. Prior to the propane recovery test, the CVS was used to exhaust the nontest vehicle used for dynamometer warm-up, and was thus at operating temperature for the propane recovery test and subsequent emission tests.

2.6.3 Federal Exhaust Emission Test Procedure

All vehicles received one 1975 FTP, without evaporative emission determinations, performed in accordance with the requirements and procedures specified in Sections 85.076-14 through 85.075-24 of Federal Register Vol. 37, No. 221, November 15, 1975, 38 Federal Register 124, 38 Federal Register 209, 39 Federal Register 101 and EPA Guidelines defined by contract. The sample collection for each set of bags was controlled by the computer. At the completion of the test, the computer printed out crank time and total test time for the cold-start and hot-start portion of the test. Vehicle driveability during the initial cold-start and the hot-start portions of the FTP was recorded at the end of the test.

2.6.4 Highway Fuel Economy Test (HFET) Procedure

The EPA HFET was performed in accordance with the contract requirements stated in Enclosure 1 of the Contract. Starting with each vehicle in a warmed-up condition (at least 7.5 miles of cyclic operation having occurred within the previous 35 minutes), each vehicle was operated on the dynamometer at 50 mph for a period of 3 minutes. Within 1 minute of the end of the 50-mph cruise period, the vehicle commenced operation over the 10.2-mile, 765-second driving schedule. A CVS bag sample was used to gather the dilute exhaust for the purpose of emission and fuel economy calculations. The engine was already running at the beginning of the sampling period. The tolerances for this driving schedule were identical to those used for the FTP.

2.6.5 Federal Short-Cycle Test Procedure

The Federal Short-Cycle, 125 seconds in duration and .7536 miles in length, consisted of the following nine modes which were sampled using the CVS:

MODE	TIME IN MODE
0-16 mph	6
16-29 mph	23
29 mph cruise	10
29-37 mph	18
37-42 mph	4.5
42-37 mph	2.5
37-20 mph	32
20-9 mph	7.5
idle	21.5
Total Seconds	= 125.0

The dynamometer loadings and transmission shift points followed the procedures as required for the FTP. Mass emissions and fuel economy were calculated in the same manner as for the HFET.

The Federal Short-Cycle and New York/New Jersey short-cycle tests were preceded by a 6-minute soak consisting of 3 minutes of engine-off followed by 3 minutes of engine idling. During the soak, the vehicle hood remained open and the cooling fan remained on.

2.6.6 New York/New Jersey ACID Test Procedure

This short CVS cycle, 75 seconds in duration and .2792 miles in length, consisted of six modes as follows:

MODE	TIME IN MODE
Idle	22
0-30 mph	15
30 mph cruise	15
30-10 mph	12
10 mph cruise	7
10-0 mph	4
Total Seconds	= 75

All vehicles were tested at an inertia weight of 3,000 pounds and 3.5 indicated hp at 30 mph. Transmission shift points for manual transmissions occurred at the same speeds as on the FTP. A minimum of 2 cubic feet in the sample bag was collected. Mass emissions and fuel economy were calculated in the same manner as for the HFET. The New York/New Jersey ACID test was preceded by the 6-minute soak period described above for the Federal Short-Cycle.

2.6.7 Clayton Key-Mode Emission Test Procedure

This short test consisted of three steady-state operating conditions during which undiluted exhaust samples were taken using a Horiba MEXA 300 exhaust analyzer.

Clayton key-mode tests were preceded by a soak period no longer than 20 minutes from the last sustained period of vehicle operation. At the end of the soak period, the vehicle was operated for a maximum of 3 minutes at the Clayton key-mode specified speed with the hood open and the cooling fan on. The inertia weight was the same as for the Federal tests. During this stabilization period, the specified dynamometer load horsepower was set. The test was performed in the order of high cruise, low cruise and idle. At each speed, equilibrium of vehicle speed and the CO and HC analyzer meters was maintained for 30 seconds before the readings were recorded in percent CO and ppm Hexane, respectively.

Class of Vehicle by Weight (NADA)	Transmission Range/ Gear	Meter Dyno.Load hp @ mph	High Speed Cruise (mph)	Low Speed Cruise (mph)	Idle
2000 to 2774 lb	Drive or Third Gear	15 @ 38	36 to 38	22 to 25	Manual Transmission in neutral
2775 to 3774 lb	Drive or High Gear	24 @ 46	44 to 46	29 to 32	
3775 lb and up	Drive or High Gear	30 @ 50	48 to 50	32 to 35	Automatic Transmission in Drive

2.6.8 Two-Speed Idle Test Procedure

This short test consisted of volumetric sampling of undiluted exhaust emissions during two steady operating conditions with the hood open and the cooling fan turned on. The first operating mode was at 2,250 engine rpm, and the second at normal idle. For both modes the transmission was in neutral.

The two-speed idle test was preceded by a soak period no longer than 20 minutes from the last sustained period of vehicle operation. The vehicle was then operated for a maximum of 3 minutes at 2,250 rpm and then for a maximum of 3 minutes at idle. CO, HC, and NO_x were reported in percent CO, ppm Hexane, and ppm NO_x, respectively.

2.6.9 Federal Three-Mode Test Procedure

This short test consisted of three steady-state operating modes (similar to Clayton key-modes) with the dynamometer loads simulating the average power which occurs at the appropriate speed on the FTP, and with all light-duty vehicles being grouped into the four weight classes shown below. Emissions were measured by the volumetric procedure for each mode.

NADA Vehicle Weight Class	Transmission Range	High Speed Mode Speed mph	High Speed Mode Load ahp	Low Speed Mode Speed mph	Low Speed Mode Load ahp	Idle Mode
Up to 2500 lb.	In lower gear for 30 mph test (3rd gear)	50	21	30	9	Automatic Transmission in Neutral and in Drive
2501 to 3500 lb.	Drive or high gear	50	26	30	12	
3501 to 4500 lb.	Drive or high gear	50	31	30	15	
Above 4500 lb.	Drive or high gear	50	36	30	18	

2.6.10 Daily Test Schedule

The daily test schedule provided for multiple shifts. In general, the night shift performed weekly and monthly calibrations on Sunday nights, and also performed the daily start-up checks including propane recovery tests on a daily basis. Vehicle preparation and preparation for return to the owner was performed on both shifts. Again, in general, the fuel draining and addition of test fuel was done on the day shift, but preconditioning was accomplished by both shifts in order to meet the 12- to 20-hour soak limit requirements. A flowchart which shows the test sequence is given in Figure 2.

2.7 DATA HANDLING

2.7.1 Data Collection

Olson developed keypunch-compatible forms for each test procedure required for this contract. Numerous other forms were developed and used for system quality control, working gas inventory control, etc. These forms included daily start-up checks and tests, working gas pressure log, weekly instrument calibration data forms, propane recovery data forms, NO_x converter efficiency checks, dynamometer coastdown data forms, and equipment maintenance logs.

Olson used a packet of file folders for each vehicle tested. This system placed all data pertaining to any one test on each vehicle in a single filing source to provide for rapid review of pertinent data, particularly for those vehicles which were subjected to multiple types of tests. Copies of pertinent data were retained at the test site with the original copy sent to Anaheim for processing. Each test packet contained the following:

1. Vehicle information sheet
2. Bond application card
3. Loan vehicle and test agreement forms

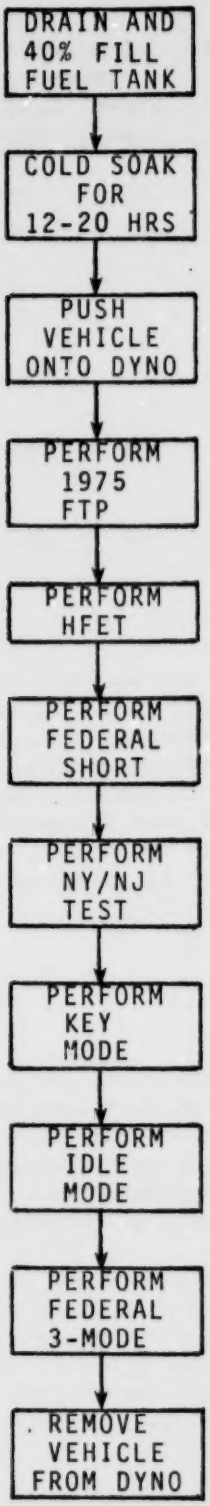


Figure 2. DETROIT RESTORATIVE MAINTENANCE EMISSION TEST SEQUENCE
EPA Contract 68-03-2379 - Modification 2

4. Owner questionnaire
5. Test data sheets for each type of test required
6. All raw test data such as analyzer recorder strip charts, temperature strip charts, driver's aid charts and all other raw test data applicable to each specific vehicle
7. Maintenance data sheets.

2.7.2 Data Processing

Vehicle information, results of vehicle inspection and emission test data were turned over to the Quality Assurance section in Anaheim. The data required to be transmitted to the Project Officer or included in this final report were verified prior to keypunch for processing on a CDC 6600 computer. All exhaust emission and fuel economy calculations were made on either the IBM 360 computer or the CDC 6660 computer.

Mass emission data for the FTP and HFET were also computed in Livonia using the HP 2114A Mini-Computer. These calculations were performed to expedite disposition of the vehicles after each test. These data were provided with the data packets, however, the final data was processed off-line using the CDC computer described above.

2.7.3 Quality Control

Review of test data indicated that test errors generally were associated with mass emission testing. Predominant errors included driver trace violations, incorrect span points, and operating vehicles at incorrect dynamometer settings (i.e.; inertia weight, horsepower, or shift points). Clerical errors and omissions were also detected in the maintenance data sheets.

Since Olson processed data off-line, keypunch errors also occurred, due in part to poor handwriting by the test personnel. A two-step audit procedure was implemented which consisted of listing the punched cards and reviewing the listed data for completeness and accuracy. After required corrections were made, the punched cards were computer processed to obtain mass emission data and correctly formatted output cards.

2.7.4 Calculation of Results

Mass emission test results were calculated off-line in accordance with procedures specified in the Federal Register and the contract.

2.7.4.1 Exhaust Emissions (Federal Test Procedure)

Emission results were calculated for the 1975 FTP in accordance with the Federal Register including provisions for the dilution factor, humidity correction factor for NO_x, and separate barometer, wet bulb and dry bulb data for each phase of the 1975 FTP. Fuel economy was calculated from the composite HC, CO, and CO_2 mass emission data using the carbon balance method.

2.7.4.2 Highway Fuel Economy Test

Highway fuel economy was calculated using the carbon balance method and mass emissions measured during the 765-second, 10.2-mile highway fuel economy driving schedule.

2.7.4.3 Federal Short-Cycle

The Federal Short-Cycle mass emissions and fuel economy were calculated in the same manner as for the HFET, except that a driving distance of 0.7536 miles was used.

2.7.4.4 New York/New Jersey Composite Test

Mass emissions and fuel economy were calculated in the same manner as for the HFET except that a driving distance of 0.2792 miles was used.

2.7.4.5 Clayton Key-Mode Emissions

Clayton Key-Mode emissions were reported as raw concentrations of HC and NO_x in ppm, and CO in percent. Hydrocarbon concentrations were reported in ppm Hexane.

2.7.4.6 Two-Speed Idle Test

The two-speed idle test results were reported in raw concentrations as ppm Hexane for HC, ppm for NO_x, and percent for CO.

2.7.4.7 Federal Three-Mode Test

The emission results for the Federal three-mode test were reported in raw concentrations as ppm Hexane for HC, ppm for NO_x, and percent for CO.

Section 3

DISCUSSION OF TEST RESULTS

3.1 DESCRIPTION OF TEST VEHICLES

Table 1 summarizes the make, size, engine displacement, transmission, and number of carburetor venturis for each vehicle specified to be tested in this program. Some substitutions were allowed for vehicle size (7), transmission (3), engine size (3), and number of carburetor venturis (3). Detailed vehicle descriptions of those vehicles actually tested and vehicle use data are presented in Appendices A and B.

3.2 FEDERAL TEST PROCEDURE EMISSIONS AND FUEL ECONOMY

Emission and fuel economy results are summarized in graphical format in Tables 2, 3, and 4, with supporting data presented in Appendices J.

Table 2 presents the percent of all vehicles and of each manufacturer group which passed the 1975-1976 Federal emission standards. Cumulative results are shown for the baseline test (Test 1), and for each subsequent step of restorative maintenance (Tests 2, 3 and 4).

Table 3 summarizes the average emissions in grams per mile for all vehicles and for each manufacturer group. In Detroit all manufacturers achieved average baseline NO_x emissions within Federal standards. Restorative maintenance resulted in small reductions in average NO_x emissions. Ford and General Motors vehicles achieved baseline HC emissions within standards, however, Chrysler's average HC emissions exceeded standards. Restorative maintenance resulted in reductions in average HC emissions for all manufacturers with the result that the average HC emissions from all vehicles were within the Federal standard. Only Ford vehicles achieved average baseline CO emissions within Federal standards. Restorative maintenance was, however, effective in further reducing CO emissions from Ford vehicles. Both General Motors and Chrysler vehicles had average baseline emissions which exceeded Federal standards, but after maintenance both groups had average CO emissions within standards.

Table 4 summarizes the average fuel economy results for all vehicles and for each manufacturer group. Restorative maintenance had negligible effect on HFET fuel economy results. Restorative maintenance did result in an increase in FTP fuel economy. This fuel economy increase was most likely related to resetting of overly rich idle mixture and choke adjustments.

3.3 SHORT-CYCLE AND STEADY-STATE TEST RESULTS

Detailed listings of emission data are presented in Appendix H by vehicle and test number. Appendix H presents mass emission data for the FTP, HFET,

Table 1. DETROIT RESTORATIVE MAINTENANCE EVALUATION
TEST VEHICLE LISTING

DESCRIPTION	TOTAL	NO.	DESCR.	NO.	DESCR.	NO.	DESCR.	NO.	DESCR.	NO.	DESCR.
CHRYSLER CORP.											
Dodge	13	001	C318A2	002	C225A1	003	C225M1	004	C225A1	005	C225A1
		006	C318A2	007	C318A2	008	I318A2	009	I318A2	010	I360A2
		011	I318A2	012	I360A2	013	F360A2				
Plymouth	16	014	C225MI	015	C225A1	016	C225A1	017	C225A1	018	C225A1
		019	C225A1	020	C318A2	021	C318A2	022	C225A1	023	I318A2
		024	I318A2	025	I360A2	026	I400A4	027	C225A1	028	I360A2
		029	C225A1								
Chrysler	4	030	I400A2	031	I360A2	032	F400A4	033	F440A4		
FORD MOTOR CO.											
Ford	24	034	X140M2	035	X171A2	036	X140A2	037	X140A2	038	X171A2
		039	C250A1	040	C250A1	041	C200A1	042	C250A1	043	C250A1
		044	C302A2	045	C302A2	046	F351A2	047	I351A2	048	I351A2
		049	I351A2	050	I351A2	051	I351A2	052	I400A2	053	F351A2
		054	F351A2	055	F400A2	056	F460A4	057	F460A4		
Mercury	7	058	C250A1	059	C302A2	060	C302A2	061	I351A2	026	I351A2
		063	F400A2	064	F400A2						
Lincoln	2	065	F460A4	066	F460A4						
GENERAL MOTORS											
Buick	5	067	C231A2	068	I260A2	069	I350A4	070	F350A4	071	F455A4
Cadillac	2	072	F500A4	073	F500A4						
Chevrolet	16	074	X085A1	075	F400A2	076	X140A2	077	C250A1	078	C305A2
		079	C305A2	080	C350A4	081	I305A2	082	I305A2	083	I350A2
		084	I350A2	085	I400A4	086	F350A2	087	F350A2	088	F350A4
		089	F400A4								
Oldsmobile	6	090	I260A2	091	I350A4	092	I350A4	093	F350A4	094	F455A4
		095	F455A4								
Pontiac	5	096	X140A2	097	C260A2	098	I350A2	099	I350A2	100	F400A2

Key to Vehicle Description:

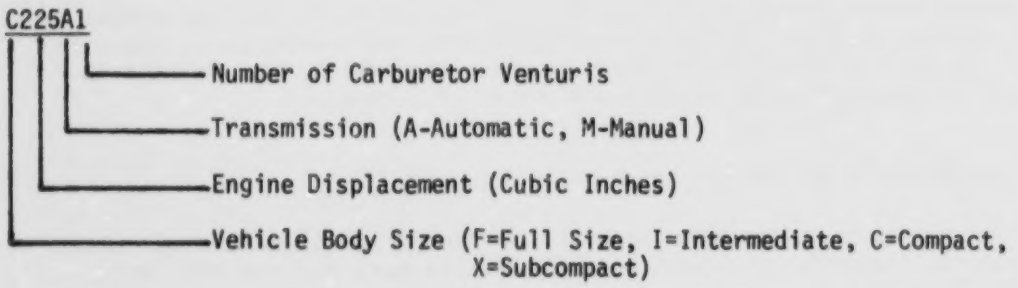
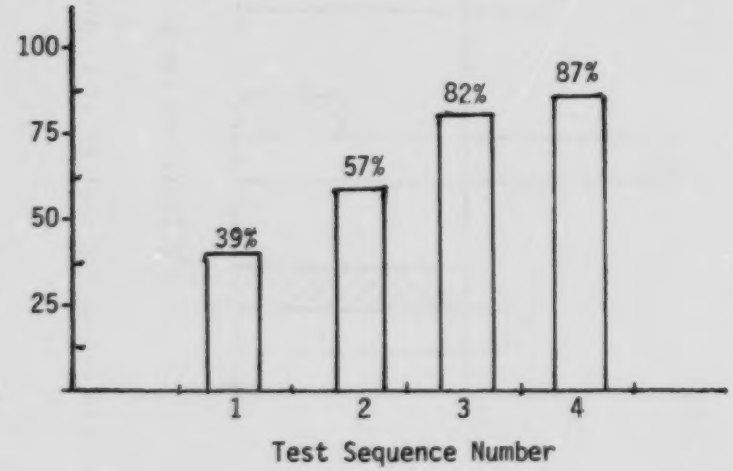
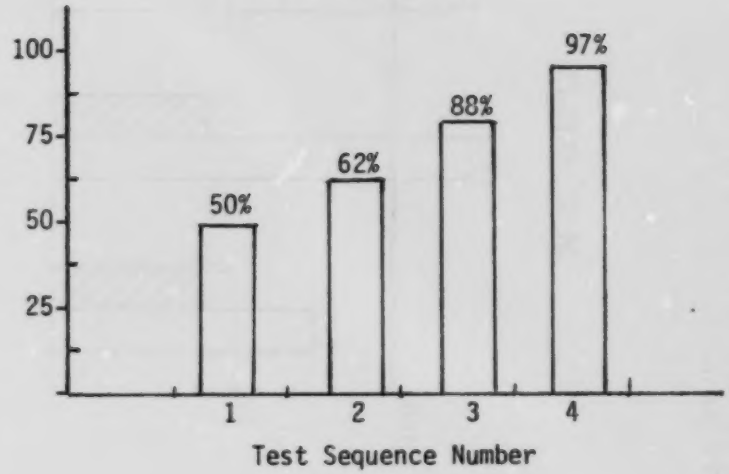


Table 2. VEHICLES MEETING FEDERAL STANDARDS FOR
1975 AND 1976 MODEL-YEAR PASSENGER CARS
(Cumulative Percent of Vehicles Meeting 1975/1976 Federal Standards
Detroit, Michigan)

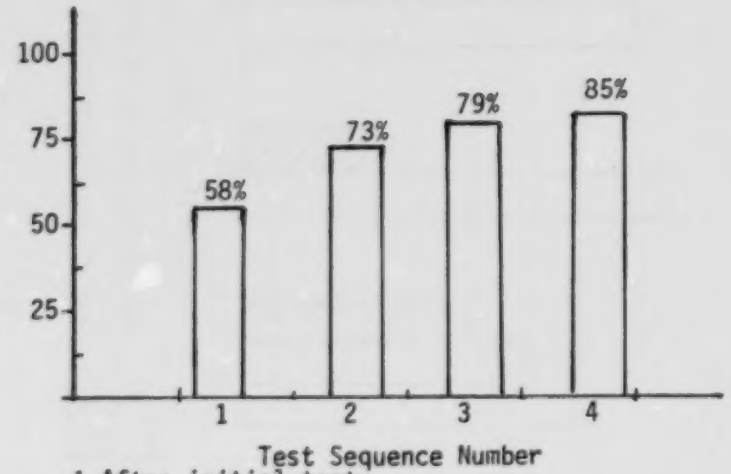
100 ALL VEHICLES



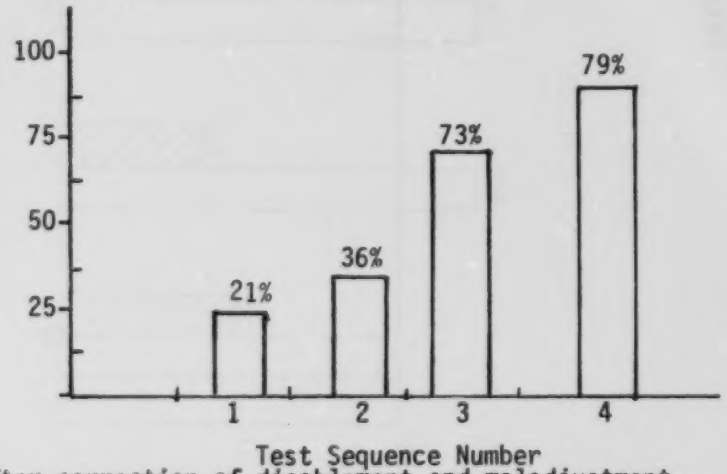
34 GM VEHICLES



33 FORD VEHICLES



33 CHRYSLER VEHICLES



1-After initial test.
2-After correction of disablement and maladjustment.
3-After Idle CO and RPM are reset to specification.
4-After emission control component repair and major tune-up.

Table 3. SUMMARY OF FEDERAL TEST PROCEDURE RESULTS
(FTP Emissions as a Percent Standards
Detroit, Michigan)

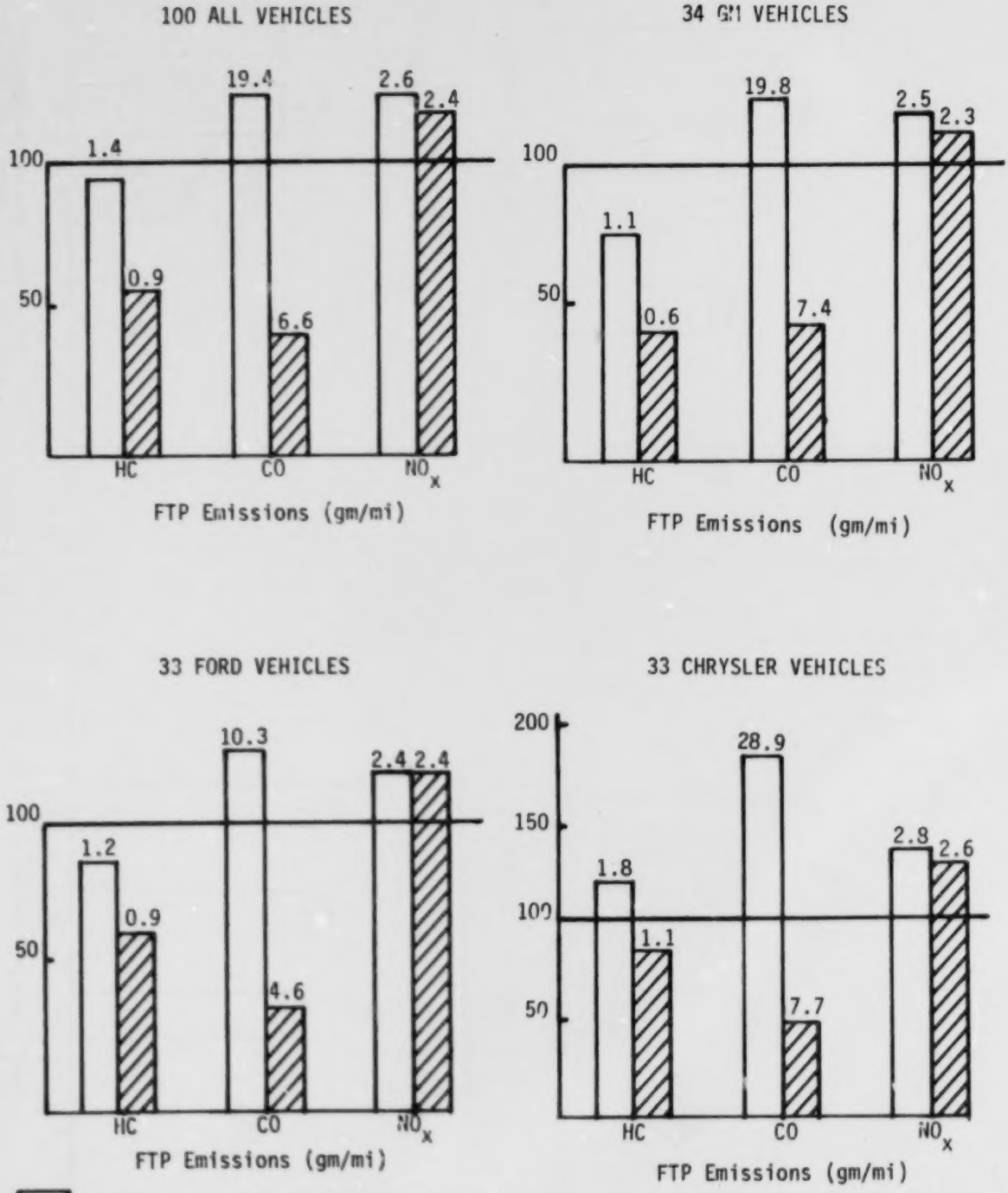
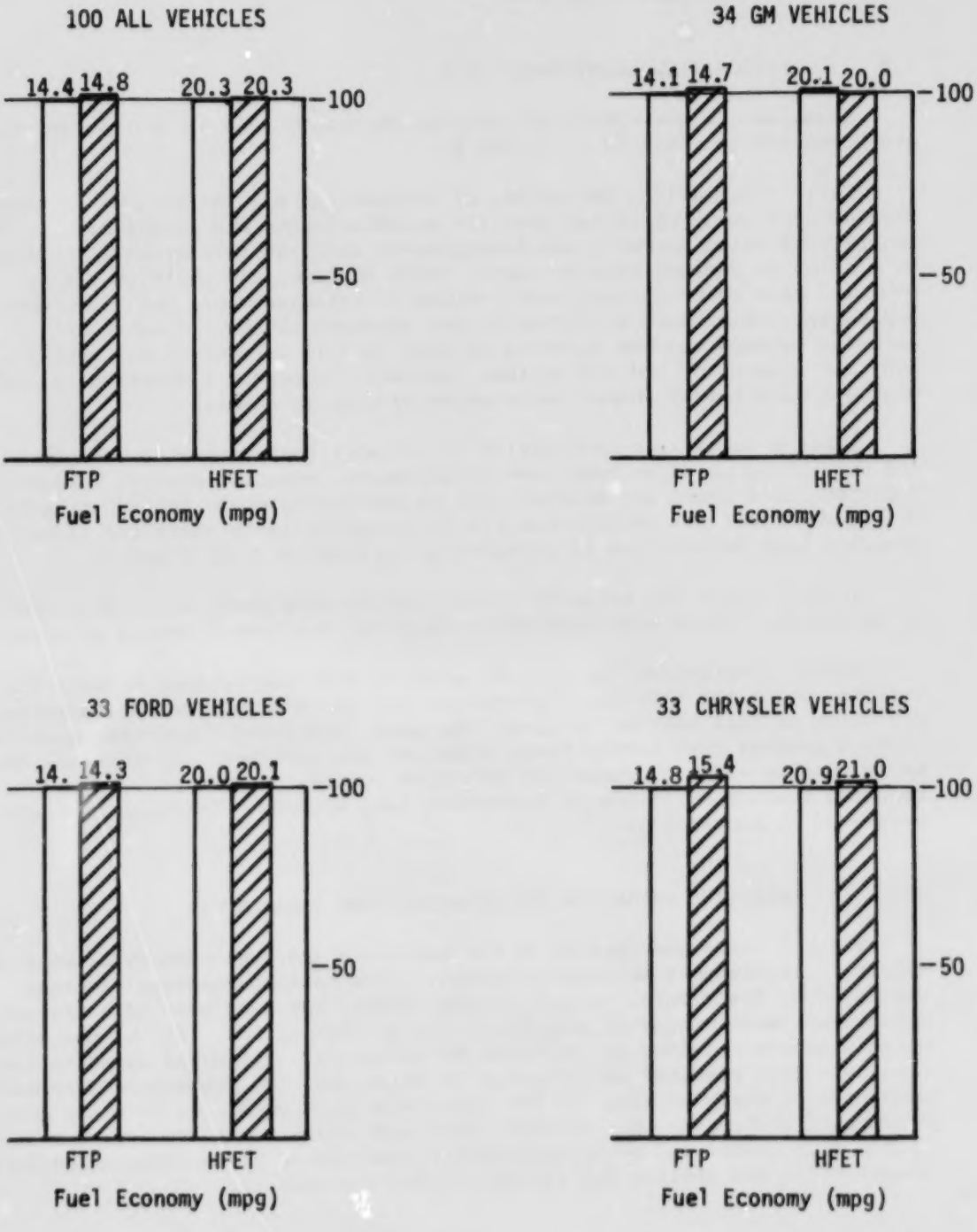


Table 4. SUMMARY OF FUEL ECONOMY RESULTS
(Fuel Economy as a Percent of Initial Test)
Detroit, Michigan



Average of results of initial test.

Average of results at which each vehicle passed (or test #4 if it did not).

Federal Short-Cycle, and New York/New Jersey Composite ACID test as well as raw exhaust concentration data for the Clayton Key-Mode Test, Federal Three-Mode Test and Two-Speed Idle Test.

3.4 RESTORATIVE MAINTENANCE DATA

Summaries of the effect of restorative maintenance on vehicle emissions are presented in Table 5, 6, 7, and 8.

Table 5 summarizes the number of occurrences and the percent of each manufacturer group which had specific maladjustments and disablements. The majority of maladjustments and disablements involved idle mixture (indicated by missing or damaged limiter caps), choke setting, and ignition timing. Many vehicles were found to have combinations of maladjustments and disablements, typically rich mixture adjustments, and advanced timing. Disablement of emission control systems occurred on less than 10 percent of all vehicles for EGR, air injection, and PCV systems combined. Appendix C lists the maladjustment and disablement inspection results by vehicle number.

Table 6 summarizes restorative maintenance costs incurred in inspecting and correcting maladjustments and disablements, emission control component function, idle speed and mixture, and in performing major tune-up activities. The average cost per vehicle was $38.79 including labor costs for inspections. Detailed cost information is provided in Appendices C, D, F and G.

Table 7 lists the emission control system components which were found to be defective. These were components which had not been disabled or maladjusted.

Table 8 summarizes the exhaust emission and fuel economy results for all vehicles which had the indicated tests. The percent improvement (emission reduction or fuel economy increase) was also calculated. Separate pages of Table 8 present each manufacturer group and all vehicles. In general, the major tune-up and replacement of defective components was ineffective in reducing average emissions or increasing fuel economy. Detailed data are presented in Appendix H.

3.5 SELECTIVE PARAMETER MALADJUSTMENT AND DISABLEMENT

Table 9 lists the impacts on FTP emissions and fuel economy of performing specific disablements or maladjustments. Five basic parameters (initial timing, EGR, distributor vacuum advance, choke, and lean best idle mixture adjustment) were evaluated singularly and in combination. All of the selected maladjustments resulted in increased HC emissions. All maladjustments except lean best idle resulted in increased CO emissions. NO_x emissions were most sensitive to disabled EGR. CO emissions were most sensitive to choke enrichment or rich idle mixture. HC emissions were most sensitive to full vacuum advance of the distributor and choke enrichment. The effect of specific maladjustments on emissions was similar for all manufacturer groups.

TABLE 5

SUMMARY OF MALADJUSTMENT AND DISABLEMENT OCCURRENCES

DETROIT

VEH MFG	NO. VEH	INDUCTION SYSTEM		- - - - FUEL SYSTEM - - - - LIM CAPS		CHOKE		OTHER		IGNITION SYSTEM INIT TIM		OTHER		EGR		AIR		PCV		EXHAUST		OTHER		ONE OR MORE OCCURRENCES	
		NO.	PCT	NO.	PCT	NO.	PCT	NO.	PCT	NO.	PCT	NO.	PCT	NO.	PCT	NO.	PCT	NO.	PCT	NO.	PCT	NO.	PCT	NO.	PCT
GM	34.	0.	0.	10.	29.	7.	21.	1.	3.	11.	32.	1.	3.	3.	9.	0.	0.	0.	0.	0.	0.	0.	0.	19.	56.
FORD	33.	3.	9.	8.	24.	2.	6.	0.	0.	6.	18.	1.	3.	2.	6.	1.	3.	1.	3.	0.	0.	0.	0.	13.	39.
CHRY	33.	2.	6.	15.	45.	11.	33.	1.	3.	5.	15.	4.	12.	2.	6.	0.	0.	0.	0.	0.	0.	1.	3.	21.	64.
ALL	100.	5.	5.	33.	33.	20.	20.	2.	2.	22.	22.	6.	6.	7.	7.	1.	1.	1.	1.	0.	0.	1.	1.	53.	53.

TABLE 6

SUMMARY OF RESTORATIVE MAINTENANCE COSTS
BY MANUFACTURER

DETROIT

MANUFACTURER	MALADJUSTMENT AND DISABLEMENT			EMISSION COMPONENT FUNCTION CHECK			IDLE SET		MAJOR TUNE-UP		TOTAL	TOTAL	TOTAL
	INSP. LABOR	CORR. LABOR	PARTS COST	INSP. LABOR	CORR. LABOR	PARTS COST	INSP. LABOR	CORR. LABOR	INSP. LABOR	PARTS COST	LABOR	PARTS	COST
GM	9.53	3.70	0.00	16.46	0.00	0.00	8.13	22.50	22.50	37.84	32.47	37.84	34.70
FORD	12.77	4.50	6.32	17.59	6.30	2.50	7.50	43.50	16.71	14.20	39.14	12.72	42.61
CHRY	9.50	4.00	8.89	14.73	3.00	3.53	4.65	3.00	11.33	10.80	35.45	10.17	39.15
ALL	10.59	4.01	7.61	16.26	4.93	3.19	5.91	6.00	14.67	15.13	35.65	13.58	38.78

NOTE: LABOR COST BASED ON $15.00 PER HOUR
PARTS BASED ON RETAIL PARTS COST

Table 7. EMISSION COMPONENT FAILURES
DETROIT

MANUFACTURER	COMPONENT NUMBER	DESCRIPTION	VEHICLES EQUIPPED	NO. OF FAILURES	PERCENT FAILURES
Chrysler	4	Heated air inlet door	33.	1.	3.03
Chrysler	5	Electrically assisted choke switch	33.	1.	3.03
Chrysler	11	OSAC Valve	11.	1.	9.09
Chrysler	20	Choke kickdown diaphragm	33.	2.	6.06
Ford Motor Co.	1	Exhaust heat control valve	1.	1.	100.00
Ford Motor Co.	25	Distributor diaphragm	33.	1.	3.03
Ford Motor Co.	27	Electric choke	32.	1.	3.13
Ford Motor Co.	28	Choke pull off diaphragm	24.	1.	4.17
Ford Motor Co.	29	Air cleaner vacuum motor	33.	1.	3.03
Ford Motor Co.	31	Cold weather modulator	25.	1.	4.00
Ford Motor Co.	35	Exhaust backpressure transducer	22.	5.	22.73
General Motors	2	Heater air inlet	34.	1.	2.94
General Motors	9	EGR backpressure transducer	2.	1.	50.00
General Motors	18	Vacuum advance modulator	2.	1.	50.00
General Motors	20	Primary vacuum break	34.	1.	2.94

NOTE: Emission component systems not listed were found to be within specifications or had previously been corrected.

TABLE 8

SUMMARY OF EXHAUST EMISSION AND FUEL ECONOMY
RESULTS AND IMPROVEMENTS AT SUCCESSIVE STAGES OF MAINTENANCE

DETROIT

CHRYSLER CORP.

	NO. VEH	FTP HC	FTP CO	FTP NOXC	FTP MPG	HFET MPG
TEST NO. 1	15.	1.85	32.55	2.99	13.90	20.17
TEST NO. 2		1.92	33.00	2.60	14.03	19.94
PCT. IMPR.		-4.	-1.	13.	1.	-1.
TEST NO. 1	11.	2.14	36.82	2.71	14.91	21.05
TEST NO. 3		1.28	10.94	2.74	16.17	21.48
PCT. IMPR.		40.	70.	-1.	8.	2.
TEST NO. 1	0.	0.00	0.00	0.00	0.00	0.00
TEST NO. 4		0.00	0.00	0.00	0.00	0.00
PCT. IMPR.		0.	0.	0.		
TEST NO. 2	10.	2.34	45.08	2.47	13.54	19.32
TEST NO. 3		.93	7.67	2.49	14.13	19.83
PCT. IMPR.		60.	83.	-1.	4.	3.
TEST NO. 2	0.	0.00	0.00	0.00	0.00	0.00
TEST NO. 4		0.00	0.00	0.00	0.00	0.00
PCT. IMPR.		0.	0.	0.		
TEST NO. 3	9.	1.41	14.10	2.81	14.93	20.30
TEST NO. 4		1.21	9.04	2.98	14.89	20.18
PCT. IMPR.		14.	36.	-6.	-0.	-1.

TEST SEQUENCE KEY
1. AFTER INITIAL TEST
2. AFTER CORRECTION OF MALADJUSTMENT AND DISABLEMENTS OTHER THAN IDLE CO AND RPM ADJUSTMENT
3. AFTER IDLE CO AND RPM ARE RESET TO SPECIFICATIONS
4. AFTER EMISSION CONTROL COMPONENT REPAIR AND MAJOR TUNE-UP

TABLE 8

SUMMARY OF EXHAUST EMISSION AND FUEL ECONOMY
RESULTS AND IMPROVEMENTS AT SUCCESSIVE STAGES OF MAINTENANCE

DETROIT

FORD MOTOR CO.

	NO. VEH	FTP HC	FTP CO	FTP NOXC	FTP MPG	HFET MPG
TEST NO. 1	9.	1.55	19.47	2.56	14.19	20.38
TEST NO. 2		1.22	13.91	2.55	14.73	20.74
PCT. IMPR.		21.	29.	0.	4.	2.
TEST NO. 1	5.	1.78	16.63	3.25	13.55	19.18
TEST NO. 3		1.57	8.56	3.19	14.42	20.13
PCT. IMPR.		12.	49.	2.	6.	5.
TEST NO. 1	0.	0.00	0.00	0.00	0.00	0.00
TEST NO. 4		0.00	0.00	0.00	0.00	0.00
PCT. IMPR.		0.	0.	0.		
TEST NO. 2	4.	1.85	26.99	3.40	13.19	18.50
TEST NO. 3		1.14	5.93	3.79	13.16	18.27
PCT. IMPR.		38.	78.	-12.	-0.	-1.
TEST NO. 2	0.	0.00	0.00	0.00	0.00	0.00
TEST NO. 4		0.00	0.00	0.00	0.00	0.00
PCT. IMPR.		0.	0.	0.		
TEST NO. 3	7.	1.44	8.74	3.74	13.77	19.48
TEST NO. 4		1.31	6.80	3.24	13.64	18.98
PCT. IMPR.		9.	22.	14.	-1.	-3.

TEST SEQUENCE KEY
1. AFTER INITIAL TEST
2. AFTER CORRECTION OF MALADJUSTMENT AND DISABLEMENTS OTHER THAN IDLE CO AND RPM ADJUSTMENT
3. AFTER IDLE CO AND RPM ARE RESET TO SPECIFICATIONS
4. AFTER EMISSION CONTROL COMPONENT REPAIR AND MAJOR TUNE-UP

TABLE 8

SUMMARY OF EXHAUST EMISSION AND FUEL ECONOMY
RESULTS AND IMPROVEMENTS AT SUCCESSIVE STAGES OF MAINTENANCE

DETROIT

GENERAL MOTORS

	NO. VEH	FTP HC	FTP CO	FTP NOXC	FTP MPG	HFET MPG
TEST NO. 1	16.	1.63	32.56	2.53	14.06	19.86
TEST NO. 2		1.44	27.44	2.25	14.12	19.68
PCT. IMPR.		11.	16.	11.	0.	-1.
TEST NO. 1	5.	.85	12.48	2.90	16.14	22.71
TEST NO. 3		.48	4.33	2.79	16.73	22.82
PCT. IMPR.		43.	65.	4.	4.	0.
TEST NO. 1	0.	0.00	0.00	0.00	0.00	0.00
TEST NO. 4		0.00	0.00	0.00	0.00	0.00
PCT. IMPR.		0.	0.	0.		
TEST NO. 2	8.	2.27	50.40	2.21	14.15	20.12
TEST NO. 3		.65	12.40	2.08	14.85	20.39
PCT. IMPR.		71.	75.	6.	5.	1.
TEST NO. 2	0.	0.00	0.00	0.00	0.00	0.00
TEST NO. 4		0.00	0.00	0.00	0.00	0.00
PCT. IMPR.		0.	0.	0.		
TEST NO. 3	2.	1.10	28.23	2.13	13.90	18.90
TEST NO. 4		1.12	31.72	1.62	12.58	16.77
PCT. IMPR.		-2.	-12.	24.	-9.	-11.

TEST SEQUENCE KEY
1. AFTER INITIAL TEST
2. AFTER CORRECTION OF MALADJUSTMENT AND DISABLEMENTS OTHER THAN IDLE CO AND RPM ADJUSTMENT
3. AFTER IDLE CO AND RPM ARE RESET TO SPECIFICATIONS
4. AFTER EMISSION CONTROL COMPONENT REPAIR AND MAJOR TUNE-UP

TABLE 8

SUMMARY OF EXHAUST EMISSION AND FUEL ECONOMY
RESULTS AND IMPROVEMENTS AT SUCCESSIVE STAGES OF MAINTENANCE

DETROIT

ALL VEHICLES

	NO. VEH	FTP HC	FTP CO	FTP NOXC	FTP MPG	HFET MPG
TEST NO. 1	40.	1.69	29.61	2.71	14.03	20.09
TEST NO. 2		1.57	26.48	2.45	14.23	20.01
PCT. IMPR.		7.	11.	10.	1.	-0.
TEST NO. 1	21.	1.75	26.22	2.88	14.88	21.00
TEST NO. 3		1.16	8.80	2.86	15.89	21.48
PCT. IMPR.		34.	66.	1.	7.	2.
TEST NO. 1	0.	0.00	0.00	0.00	0.00	0.00
TEST NO. 4		0.00	0.00	0.00	0.00	0.00
PCT. IMPR.		0.	0.	0.		
TEST NO. 2	22.	2.23	43.72	2.54	13.70	19.46
TEST NO. 3		.87	9.07	2.58	14.21	19.75
PCT. IMPR.		61.	79.	-1.	4.	1.
TEST NO. 2	0.	0.00	0.00	0.00	0.00	0.00
TEST NO. 4		0.00	0.00	0.00	0.00	0.00
PCT. IMPR.		0.	0.	0.		
TEST NO. 3	18.	1.39	13.58	3.10	14.36	19.83
TEST NO. 4		1.24	10.69	2.93	14.14	19.33
PCT. IMPR.		10.	21.	6.	-2.	-2.

TEST SEQUENCE KEY
1. AFTER INITIAL TEST
2. AFTER CORRECTION OF MALADJUSTMENT AND DISABLEMENTS OTHER THAN IDLE CO AND RPM ADJUSTMENT
3. AFTER IDLE CO AND RPM ARE RESET TO SPECIFICATIONS
4. AFTER EMISSION CONTROL COMPONENT REPAIR AND MAJOR TUNE-UP

Table 9.
SUMMARY OF SELECTIVE PARAMETER MALADJUSTMENT OR DISABLEMENT ON ALL VEHICLES

CONDITION	No. Veh	FTP				HFET
		HC (gm/mi)	CO (gm/mi)	NO_x (gm/mi)	MPG	MPG
1. Base	12	0.755	5.627	2.220	14.476	19.65
Advance Timing		0.959	6.390	2.537	14.913	20.26
% Change		27.0%	13.6%	14.3%	3.0%	3.1%
2. Base Test	12	0.755	5.627	2.220	14.476	19.65
Plug EGR		0.814	6.083	5.945	14.564	19.86
% Change		7.8%	8.7%	167.8%	0.6%	1.1%
3. Base Test	7	0.660	6.305	2.126	14.041	18.85
Full Vac. Adv. to Dist		1.066	8.673	2.260	13.002	18.33
% Change		61.5%	37.6%	6.3%	-7.4%	-2.8%
4. Base Test	8	0.645	5.412	1.955	13.891	19.18
3 Notches Richer on Choke		0.865	10.370	1.840	13.139	18.90
% Change		34.1%	91.6%	-5.9%	-5.4%	-1.5%
5. Base Test	3	0.629	4.600	1.999	14.106	19.83
Plug Egr Full Vac. Adv. to Dist. Choke +3 Notches Richer		0.985	8.419	7.232	13.392	19.05
% Change		56.6%	83.0%	26.2%	-5.1%	-3.9%
6. Base Test	3	0.801	4.292	1.760	14.557	20.24
Disable Choke Heater		0.834	7.411	1.715	14.601	20.83
% Change		4.1%	72.7%	-2.6%	0.3%	2.9%
7. Base Test	1	0.644	1.863	1.684	15.192	20.37
Richen Choke 3N, Disable EGR Set I Timing & Reset RPM		0.684	5.205	6.004	14.960	15.95
% Change		6.2%	179.4%	2.6%	-1.5%	-21.7%

Table 9.
SUMMARY OF SELECTIVE PARAMETER MALADJUSTMENT OR DISABLEMENT ON ALL VEHICLES (Continued)

CONDITION	No. Veh	FTP				HFET
		HC (gm/mi)	CO (gm/mi)	NO_x (gm/mi)	MPG	MPG
8. Base Test	1	0.834	6.583	1.365	11.891	17.4
Disable Choke Heater, Set Choke ~ 3NR Time 5° BTDC Disable EGR & Plug Vac.		1.219	20.285	6.240	10.932	16.2
% Change		46.2%	208.1%	357.1%	-8.1%	4.5%
9. Base Test	1	1.389	7.168	3.541	12.962	17.33
Set Idle + Advance		1.784	13.497	6.684	13.665	19.88
% Change		28.4%	88.3%	88.8%	5.4%	14.7%
10. Base Test	1	0.598	6.614	2.296	14.592	19.94
Choke 3NR, Direct Vac Line to Dist, Timing +5° Plug EGR		1.616	12.460	7.123	15.30	20.73
% Change		170.2%	88.4%	210.2%	5.2%	4.0%
11. Base Test	4	0.977	6.059	2.750	15.646	20.58
Lean Best Idle		1.548	3.390	2.658	14.976	20.24
% Change		58.4%	-44.1%	-3.4%	-4.3%	-1.7%
12. Base Test	1	0.642	5.259	2.997	17.558	22.33
Adjust Idle CO		1.353	18.672	5.248	18.229	23.76
% Change		110.7%	255.1%	75.1%	3.8%	6.4%
13. Base Test	1	1.496	8.560	3.115	13.911	20.18
Choke Heater Disabled Richen Fuel Mix. EGR Plug Disabled		1.625	20.284	7.007	13.788	20.60
% Change		8.6%	136.9%	124.9%	-0.9%	2.1%
14. Base Test	1	0.555	4.035	3.056	15.553	19.42
Full Vac. Adv. to Dist. OSAC Reconnect, Choke Heater Disabled		0.961	6.869	6.441	13.139	18.71
% Change		73.2%	70.2%	110.8%	-15.5%	-3.7%

Table 9.

SUMMARY OF SELECTIVE PARAMETER MALADJUSTMENT OR DISABLEMENT ON ALL VEHICLES (Continued)

CONDITION	No. Veh	FTP				HFET
		HC (gm/mi)	CO (gm/mi)	NO_x (gm/mi)	MPG	MPG
1. Base Line	4	.977	6.059	2.750	15.646	20.58
Plug EGR Valve		1.108	6.579	5.988	15.045	19.68
% Change		13.4%	8.6%	117.7%	-3.8%	-4.4%
2. Base Test	4	0.977	6.059	2.750	15.646	20.58
Lean Best Idle		1.548	3.390	2.658	14.976	20.24
% Change		58.4%	-44.1%	-3.4%	-4.3%	-1.7%
3. Base Test	4	.977	6.059	2.750	15.646	20.58
Advance Timing		1.299	6.085	3.060	16.400	21.89
% Change		32.9%	0.4%	11.3%	4.8%	6.4%
4. Base Test	2	0.885	5.209	2.444	15.557	19.89
Full Vac. Adv. to Dist.		1.229	11.737	3.006	13.864	19.98
% Change		38.9%	125.3%	23.0%	-10.9%	0.5%
5. Base Test	1	0.642	5.259	2.997	17.558	22.33
Adjust Idle CO		1.353	18.672	5.248	18.229	23.76
% Change		110.7%	255.0%	75.1%	3.9%	6.4%
6. Base Test	1	1.496	8.560	3.115	13.911	20.18
Choke Heater Disabled Richen Fuel Mix EGR Plug & Dis.		1.625	20.284	7.007	13.788	20.60
% Change		8.6%	137.0%	124.5%	-0.9%	2.1%
7. Base Test	1	0.555	4.035	3.056	15.553	19.42
Full Vac. Adv. to Dist. OSAC Reconnect, Choke Heater Dis.		0.961	6.869	6.441	13.139	18.71
% Change		73.2%	70.2%	110.8%	-15.5%	-3.7%

Table 9

SUMMARY OF SELECTIVE PARAMETER MALADJUSTMENT OR DISABLEMENT ON ALL VEHICLES (Continued)

CONDITION	No. Veh	FTP				HFET
		HC (gm/mi)	CO (gm/mi)	NO_X (gm/mi)	MPG	MPG
1. Base Test	5	0.673	4.449	1.873	13.880	19.47
Advance Timing		0.824	5.368	2.325	13.627	19.30
% Change		22.4%	20.7%	24.1%	-1.8%	-0.9%
2. Base Test	5	0.673	4.449	1.873	13.880	19.47
Plug EGR		0.670	4.544	5.793	13.710	19.43
% Change		-0.4%	2.1%	209.3%	-1.2%	-0.2%
3. Base Test	5	0.673	4.449	1.873	13.880	19.47
3 Notches Richer on Choke		0.985	8.365	1.903	13.349	19.75
% Change		46.4%	88.0%	3.6%	-3.8%	1.4%
4. Base Test	3	0.629	4.600	1.999	14.106	19.83
Plug EGR, Full Vac Adv. to Dist Choke +3 Notches Richer		0.985	8.419	7.232	13.392	19.05
% Change		56.6%	83.0%	261.8%	-5.1%	-3.9%
5. Base Test	3	0.801	4.292	1.760	14.557	20.24
Disable Choke Heater		0.834	7.411	1.715	14.601	20.83
% Change		4.1%	72.7%	-2.6%	0.3%	2.9%
6. Base Test	2	0.481	4.685	1.897	12.665	17.78
Full Vac. Adv. to Dist.		1.320	7.332	1.981	11.671	16.70
% Change		174.4%	56.5%	4.4%	-7.9%	-6.1%
7. Base Test	1	0.644	1.863	1.684	15.192	20.37
Richen Choke +3 Disable EGR Set I Timing and Reset RPM		0.684	5.205	6.004	14.960	15.95
% Change		6.2%	179.4%	256.5%	-1.5%	-21.7%
8. Base Test	1	0.834	6.583	1.365	11.891	17.4
Disable Choke Heater Set Choke + 3 NR Time 5° BTDC Disable EGR & Plug Vac		1.219	20.285	6.240	10.932	16.62
% Change		46.2%	208.1%	357.1%	-8.1%	-4.5%
9. Base Test	1	1.389	7.168	3.541	12.962	17.33
Set Idle & Advance		1.784	13.497	6.684	13.665	19.88
% Change		28.4%	88.3%	88.8%	5.4%	14.7%

Table 9

SUMMARY OF SELECTIVE PARAMETER MALADJUSTMENT OR DISABLEMENT ON ALL VEHICLES (Continued)

CONDITION	No. Veh	FTP				HFET
		HC (gm/mi)	CO (gm/mi)	NO_x (gm/mi)	MPG	MPG
1. Base Test	4	0.598	6.614	2.296	14.592	19.94
Choke 3NR, Direct Vac Line C to Dist. Timing $+5^0$ Plug EGR		1.616	12.460	7.123	15.30	20.73
% Change		170.2%	88.4%	210.2%	5.2%	4.0%
2. Base Test	3	.616	6.374	2.036	13.901	18.89
$+5^0$ Timing		.755	7.717	2.227	14.667	19.60
% Change		22.6%	21.1%	9.4%	5.5%	0.9%
3. Base Test	3	.616	6.374	2.036	13.901	18.89
Plug EGR Line		.664	7.125	6.055	14.938	20.46
% Change		7.8%	11.8%	197.4%	7.5%	3.8%
4. Base Test	3	.616	6.374	2.036	13.901	18.89
Choke 3NR		.744	12.374	1.776	12.929	18.05
% Change		20.8%	94.1%	-13.3%	-7.0%	-4.5%
5. Base Test	3	.616	6.374	2.036	13.901	18.89
Full Vac Adv. to Dist.		.651	6.951	1.793	13.470	18.30
% Change		5.7%	9.1%	-11.9%	-3.1%	-3.1%

3.6 VEHICLE DRIVEABILITY PERFORMANCE

Results of the driveability evaluation are presented in Appendix I by test and vehicle number.

3.7 VEHICLE MANUFACTURER CORRELATION VEHICLE TEST RESULTS

As part of the test program, the manufacturer's were invited to participate prior to testing of their vehicle models. General Motors, Ford Motor Company, and Chrysler Corporation brought in to Olsons Laboratories' test facilities a correlation vehicle for exhaust emission testing. This invitation by the contractor provided test credibility to the manufacturers in the emission results.

Table 10 is a tabulation of the emission test results. It should be noted that cold-start FTPs were performed only on the Ford correlation vehicles. All others were hot-start 505 FTPs. Tests performed are indicated in Table 10. Based upon information received by Olson, our test data is well within agreement of the manufacturers.

Table 10. VEHICLE MANUFACTURER CORRELATION VEHICLE TEST RESULTS

TEST NO.	HC g/m	CO g/m	CO_2 g/m	NO_x g/m	F.E. MPG	MANUFACTURER	TEST	DATE
1	0.411	3.57	665	2.48	-	Chrysler	505 Hot-Start FTP	8/11/76
2	.395	3.60	661	2.43	-	Chrysler	505 Hot-Start FTP	8/11/76
3	.386	3.38	670	2.42	-	Chrysler	505 Hot-Start FTP	8/11/76
Average	.397	3.52	665	2.44	-	Chrysler	505 Hot-Start FTP	Corr. Veh.
1	0.914	1.76	557	2.69	15.8	Ford	Cold-Start FTP	1/13/77
2	0.911	1.92	562	2.39	15.6	Ford	Cold-Start FTP	1/14/77
3	0.886	1.76	562	2.48	15.6	Ford	Cold-Start FTP	1/15/77
4	0.862	1.62	553	2.68	15.9	Ford	Cold-Start FTP	1/17/77
5	0.825	1.26	557	2.44	15.8	Ford	Cold-Start FTP	1/19/77
6	0.858	1.35	558	2.51	15.8	Ford	Cold-Start FTP	1/20/77
Average	0.876	1.61	558	2.53	15.8	Ford	Cold-Start FTP	T304 Veh.
1	5.13	76.2	1966	14.0	-	G.M.	505 Hot-Start	4/4/77
2	5.79	68.6	2020	15.0	-	G.M.	505 Hot-Start	4/4/77
3	5.43	68.2	1955	13.8	-	G.M.	505 Hot-Start	4/4/77
4	5.42	62.6	1967	13.9	-	G.M.	505 Hot-Start	4/4/77
Average	5.44	68.9	1977	14.2	-	G.M.	505 Hot-Start	Corr. Veh.
1	4.15	61.2	1661	10.4	-	G.M.	505 Hot-Start	8/31/77
2	5.33	76.6	2057	12.9	-	G.M.	505 Hot-Start	8/31/77
3	4.54	61.6	1760	11.1	-	G.M.	505 Hot-Start	8/31/77
Average	4.67	66.5	1826	11.5	-	G.M.	505 Hot-Start	REPCA Veh.

Appendix A

LISTING OF VEHICLE AND TEST PARAMETERS

APPENDIX A - LISTING OF VEHICLE AND TEST PARAMETERS

Legend

VEH - Vehicle Number

RUN - Run Number

DATE - Date of Test (month, day, year)

YR - Model Year

MAKE - Vehicle Make

MDL - Vehicle Model

C - Number of Cylinders and Rotors

CID - Engine Displacement in Cubic Inches

V - Number of Carburetor Venturis (0: fuel injection)

T - Type of Transmission (1: automatic; 2: semi-automatic; 3: 3-speed manual; 4: 4-speed manual; 5: 5-speed manual)

A - Air Conditioning: (1: Yes; 2: No)

FT - Fuel Tank Capacity in Gallons

IRPM - Idle RPM

IRPMS - Idle RPM

P - PCV System Operational (1: Yes; 2: No)

DW - Ignition Point Dwell in Degrees, actual (99: electronic ignition)

DWS - Ignition Point Dwell in Degrees, specs. (99: electronic ignition)

IGN - Ignition Timing in Degrees, actual (+ indicates before top dead centers; - indicates after top dead center; 000 indicates top dead center)

IGNS - Ignition Timing in Degrees, Manufacturers Specification (+ indicates before top dead centers; - indicates after top dead center; 000 indicates top dead center)

INRT - Dynamometer Inertia Weight Setting

RLHP - Road Load Horsepower Setting

L - Was 10% RLHP added to simulate air conditioner (1: Yes; 2: No)

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DB - Dry Bulb Temperature (degrees Fahrenheit)

WB - Wet Bulb Temperature (degrees Fahrenheit)

BAROM - Barometric Pressure (inches Hg)

TEST - Test Number

APPENDIX A

LISTING OF VEHICLE AND TEST PARAMETERS

DETROIT

MANUFACTURER: CHRY

VEH	RUN	DATE	YR	MAKE	MODL	C	CID	V	T	A	FT	IRPM	IRPMS	P	DW	DWS	IGN	IGNS	INRT	RLHP	L	DB	WB	BAROM	TEST
6001	0126	010677	76	DODG	ASPE	6	318	2	1	1	18	850	750	1	99	99	+02	+02	4000	13.2	1	79	59	29.12	1
6001	0131	010777	76	DODG	ASPE	6	318	2	1	1	18	750	750	1	99	99	+03	+02	4000	13.2	1	78	58	29.25	3
6002	0079	112276	76	DODG	ASPE	6	225	1	1	2	18	1100	750	1	99	99	+07	+02	4000	13.2	1	78	57	29.29	1
6002	0083	112476	76	DODG	ASPE	6	225	1	1	2	18	900	750	1	99	99	+02	+02	4000	13.2	1	79	56	29.21	2
6002	0092	120376	76	DODG	ASPE	6	225	1	1	2	18	700	750	1	99	99	+02	+02	4000	13.2	1	80	57	29.47	3
6002	0097	120776	76	DODG	ASPE	6	225	1	1	2	18	650	750	1	99	99	+02	+02	4000	13.2	1	77	59	29.28	6
6002	0101	120976	76	DODG	ASPE	6	225	1	1	2	18	650	750	1	99	99	+02	+02	4000	13.2	1	78	59	29.54	7
6002	0102	121076	76	DODG	ASPE	6	225	1	1	2	18	600	750	1	99	99	+08	+02	4000	13.2	1	78	60	29.29	8
6002	0105	121576	76	DODG	ASPE	6	225	1	1	2	18	650	750	1	99	99	+02	+02	4000	13.2	1	80	62	29.18	9
6003	0094	120676	76	DODG	ASPE	6	225	1	3	2	18	675	750	1	99	99	+06	+06	4000	13.2	1	78	60	29.34	1
6004	0080	112376	76	DODG	ASPE	6	225	1	1	2	18	850	750	1	99	99	+03	+02	4000	13.2	1	79	57	29.36	1
6004	0084	112976	76	DODG	ASPE	6	225	1	1	2	18	650	750	1	99	99	+03	+02	4000	13.2	1	75	53	29.36	3
6005	0065	111576	76	DODG	ASPE	6	225	1	1	2	18	625	750	1	99	99	-03	+02	4000	13.2	1	82	57	29.30	1
6005	0069	111776	76	DODG	ASPE	6	225	1	1	2	18	600	750	1	99	99	+02	+02	4000	13.2	1	80	58	28.94	2
6005	0076	112076	76	DODG	ASPE	6	225	1	1	2	18	750	750	1	99	99	+02	+02	4000	13.2	1	77	56	29.01	3
6006	0068	111776	76	DODG	ASPE	8	318	2	1	1	18	700	750	1	99	99	+02	+02	4000	13.2	1	82	60	28.93	1
6006	0074	111976	76	DODG	ASPE	8	318	2	1	1	18	750	750	1	99	99	+02	+02	4000	13.2	1	80	57	29.10	2
6006	0078	112276	76	DODG	ASPE	8	318	2	1	1	18	650	750	1	99	99	+02	+02	4000	13.2	1	79	57	29.24	3
6006	0089	120176	76	DODG	ASPE	8	318	2	1	1	18	680	750	1	99	99	+03	+02	4000	13.2	1	73	55	29.41	4
6006	0098	120876	76	DODG	ASPE	8	318	2	1	1	18	750	750	1	99	99	+02	+02	4000	13.2	1	80	60	29.39	A
6007	0061	111276	76	DODG	ASPE	8	318	2	1	2	18	850	750	1	99	99	+06	+02	4000	13.2	1	82	58	29.51	1
6007	0067	111676	76	DODG	ASPE	8	318	2	1	2	18	850	750	1	99	99	+04	+02	4000	13.2	1	83	59	29.44	2
6007	0070	111876	76	DODG	ASPE	8	318	2	1	2	18	520	750	1	99	99	+02	+02	4000	13.2	1	81	58	29.11	3
6008	0057	111176	76	DODG	CHAR	8	318	2	1	1	26	600	750	1	99	99	+02	+02	4500	14.0	1	80	57	29.37	1
6009	0053	111076	76	DODG	CORO	8	318	2	1	2	26	600	900	1	99	99	-02	-04	4500	14.0	1	81	59	29.04	1
6009	0056	111176	76	DODG	CORO	8	318	2	1	2	26	675	900	1	99	99	-04	-02	4500	14.0	1	81	58	29.35	2
6010	0055	111076	76	DODG	CHAR	8	360	2	1	1	26	600	700	1	99	99	+05	+06	4500	14.0	1	80	60	29.12	1
6010	0060	111276	76	DODG	CHAR	8	360	2	1	1	26	600	700	1	99	99	+05	+06	4500	14.0	1	82	59	29.53	2
6010	0062	111576	76	DODG	CHAR	8	360	2	1	1	26	590	700	1	99	99	+05	+06	4500	14.0	1	80	58	29.29	3
6011	0093	120476	76	DODG	CHAR	8	318	2	1	1	26	1050	750	1	99	99	+03	+02	4500	14.0	1	81	61	29.56	1
6011	0095	120776	76	DODG	CHAR	8	318	2	1	1	26	700	750	1	99	99	+01	+02	4500	14.0	1	80	60	29.22	3
6011	0100	120976	76	DODG	CHAR	8	318	2	1	1	26	800	750	1	99	99	+02	+02	4500	14.0	1	77	59	29.66	4
6012	0109	121776	76	DODG	CORO	8	360	2	1	2	21	740	700	1	99	99	+06	+06	5000	14.7	1	80	62	29.20	1
6012	0112	122076	76	DODG	CORO	8	360	2	1	2	20	725	700	1	99	99	+06	+06	5000	14.7	1	78	59	28.99	2
6012	0115	122176	76	DODG	CORO	8	360	2	1	2	20	700	700	1	99	99	+06	+06	5000	14.7	1	79	66	29.37	3
6012	0117	122276	76	DODG	CORO	8	360	2	1	2	21	700	700	1	99	99	+06	+06	5000	14.7	1	81	61	28.99	4
6013	0143	011377	76	DODG	MONA	8	360	2	1	1	27	770	700	1	99	99	+06	+06	5000	14.7	1	77	58	29.30	1
6013	0146	011477	76	DODG	MONA	8	360	2	1	1	27	700	700	1	99	99	+06	+06	5000	14.7	1	78	59	29.04	2
6013	0151	011877	76	DODG	MONA	8	360	2	1	1	27	675	700	1	99	99	+06	+06	5000	14.7	1	74	56	29.14	3
6014	0081	112376	76	PLYM	VOLA	6	225	1	4	2	18	670	750	1	99	99	+04	+06	4000	13.2	1	79	57	29.36	1

APPENDIX A

LISTING OF VEHICLE AND TEST PARAMETERS

DETROIT

MANUFACTURER: CHRY

VEH	RUN	DATE	YR	MAKE	MODL	C	CID	V	T	A	FT	IRPM	IRPMS	P	DW	DWS	IGN	IGNS	INRT	RLHP	L	DB	WB	BAROM	TEST
6015	0046	110576	76	PLYM	VOLA	6	225	1	1	1	18	950	750	1	99	99	+06	+02	4000	13.2	1	79	57	29.26	1
6015	0050	110876	76	PLYM	VOLA	6	225	1	1	1	18	625	750	1	99	99	+04	+02	4000	13.2	1	77	57	29.34	3
6015	0059	111176	76	PLYM	VOLA	6	225	1	1	1	18	600	750	1	99	99	+04	+02	4000	13.2	1	81	58	29.44	4
6016	0038	110276	76	PLYM	DUST	6	225	1	1	2	16	650	750	1	99	99	+02	+02	3500	12.3	1	81	63	29.22	1
6017	0043	110476	76	PLYM	DUST	6	225	1	1	1	16	750	750	1	99	99	+03	+02	3500	12.3	1	78	57	29.22	1
6017	0049	110876	76	PLYM	DUST	6	225	1	1	1	16	775	750	1	99	99	+02	+02	3500	12.3	1	79	57	29.40	2
6018	0030	102876	76	PLYM	DUST	6	225	1	1	2	16	700	750	1	99	99	+02	+02	3500	12.3	1	81	60	29.51	1
6018	0035	110176	76	PLYM	DUST	6	225	1	1	2	16	600	750	1	99	99	+04	+02	3500	12.3	1	79	58	29.50	3
6019	0027	102776	76	PLYM	VOLA	6	225	1	1	1	18	725	750	1	99	99	+04	+02	4000	13.2	1	83	60	29.70	1
6019	0034	110176	76	PLYM	VOLA	6	225	1	1	1	18	625	750	1	99	99	+04	+02	4000	13.2	1	79	58	29.49	2
6020	0026	102776	76	PLYM	VOLA	8	318	2	1	1	18	525	750	1	99	99	+02	+02	4000	13.2	1	80	58	29.72	1
6021	0029	102876	76	PLYM	VOLA	8	318	2	1	2	18	850	750	1	99	99	+01	+02	4000	13.2	1	81	60	29.62	1
6021	0032	110176	76	PLYM	VOLA	8	318	2	1	2	18	650	750	1	99	99	+01	+02	4000	13.2	1	81	59	29.53	3
6021	0036	110276	76	PLYM	VOLA	8	318	2	1	2	18	650	750	1	99	99	+01	+02	4000	13.2	1	80	60	29.32	4
6021	0039	110376	76	PLYM	VOLA	8	318	2	1	2	18	650	750	1	99	99	+01	+02	4000	13.2	1	79	58	29.13	6
6021	0041	110476	76	PLYM	VOLA	8	318	2	1	2	18	750	750	1	99	99	+01	+02	4000	13.2	1	79	58	29.15	7
6021	0044	110576	76	PLYM	VOLA	8	318	2	1	2	18	650	750	1	99	99	+07	+02	4000	13.2	1	81	59	29.30	8
6021	0048	110876	76	PLYM	VOLA	8	318	2	1	2	18	650	750	1	99	99	+20	+02	4000	13.2	1	79	57	29.41	9
6022	0108	121776	76	PLYM	VOLA	6	225	1	1	2	18	850	750	1	99	99	+02	+02	4000	13.2	1	81	63	29.00	1
6022	0114	122176	76	PLYM	VOLA	6	225	1	1	2	18	650	750	1	99	99	+02	+02	4000	13.2	1	79	61	29.30	3
6022	0118	122776	76	PLYM	VOLA	6	225	1	1	2	18	650	750	1	99	99	+02	+02	4000	13.2	1	74	57	28.67	4
6023	0021	101976	76	PLYM	FURY	8	318	2	1	1	26	750	750	1	99	99	+04	+02	4500	14.0	1	79	60	29.35	1
6023	0023	102276	76	PLYM	FURY	8	318	2	1	1	26	725	750	1	99	99	+26	+02	4500	14.0	1	80	59	29.34	2
6023	0028	102776	76	PLYM	FURY	8	318	2	1	1	26	650	750	1	99	99	+04	+02	4500	14.0	1	80	57	29.71	3
6024	0121	123077	76	PLYM	FURY	8	318	2	1	2	26	900	750	1	99	99	+04	+02	4500	14.0	1	79	59	28.96	1
6024	0123	010477	76	PLYM	FURY	8	318	2	1	2	26	800	750	1	99	99	+02	+02	4500	14.0	1	78	59	29.36	2
6024	0129	010677	76	PLYM	FURY	8	318	2	1	2	26	800	750	1	99	99	+01	+02	4500	14.0	1	76	57	29.07	5
6024	0136	011077	76	PLYM	FURY	8	318	2	1	2	26	725	750	1	99	99	+02	+02	4500	14.0	1	75	58	29.07	6
6024	0144	011377	76	PLYM	FURY	8	318	2	1	2	26	730	750	1	99	99	+02	+02	4500	14.0	1	80	59	29.23	7
6024	0147	011477	76	PLYM	FURY	8	318	2	1	2	26	750	750	1	99	99	+08	+02	4500	14.0	1	78	59	29.08	8
6024	0148	011577	76	PLYM	FURY	8	318	2	1	2	26	780	750	1	99	99	+04	+02	4500	14.0	1	78	58	29.16	9
6025	0119	122977	76	PLYM	FURY	8	360	2	1	1	26	800	700	1	99	99	+08	+06	4500	14.0	1	74	57	28.77	1
6025	0124	010477	76	PLYM	FURY	8	360	2	1	1	26	700	700	1	99	99	+07	+06	4500	14.0	1	80	60	29.35	3
6025	0128	010677	76	PLYM	FURY	8	360	2	1	1	26	800	700	1	99	99	+09	+06	4500	14.0	1	75	57	28.95	5
6025	0150	011777	76	PLYM	FURY	8	360	2	1	1	26	720	700	1	99	99	+06	+06	4500	14.0	1	80	59	29.06	6
6025	0152	011877	76	PLYM	FURY	8	360	2	1	1	26	610	700	1	99	99	+06	+06	4500	14.0	1	79	58	29.20	7
6025	0154	011977	76	PLYM	FURY	8	360	2	1	1	26	780	700	1	99	99	+12	+06	4500	14.0	1	80	57	29.08	8
6025	0156	012077	76	PLYM	FURY	8	360	2	1	1	26	700	700	1	99	99	+06	+06	4500	14.0	1	79	57	29.20	9

APPENDIX A

LISTING OF VEHICLE AND TEST PARAMETERS

DETROIT

MANUFACTURER: CHRY

VEH	RUN	DATE	YR	MAKE	MODL	C	CID	V	T	A	FT	IRPM	IRPMS	P	DW	DWS	IGN	IGNS	INRT	RLHP	L	DB	WB	BAROM	TEST
6026	0010	101276	76	PLYM	GRNF	8	400	4	1	1	26	700	720	1	99	99	+10	+10	5000	14.7	1	83	67	29.31	1
6026	0014	101376	76	PLYM	GRNF	8	400	4	1	1	26	650	720	1	99	99	+10	+10	5000	14.7	1	80	62	29.00	2
6026	0017	101476	76	PLYM	GRNF	8	400	4	1	1	26	650	720	1	99	99	+10	+10	5000	14.7	1	82	60	29.10	3
6027	0137	011177	76	PLYM	VOLA	6	225	1	1	2	18	920	750	1	99	99	+03	+02	4000	13.2	1	80	60	29.45	1
6027	0145	011477	76	PLYM	VOLA	6	225	1	1	2	18	725	750	1	99	99	+02	+02	4000	13.2	1	79	59	29.13	3
6027	0149	011777	76	PLYM	VOLA	6	225	1	1	2	18	710	750	1	99	99	+02	+02	4000	13.2	1	79	59	29.03	4
6028	0127	010677	76	PLYM	FURY	8	360	2	1	1	26	1000	700	1	99	99	+06	+06	4500	14.0	1	76	58	29.13	1
6028	0133	010877	76	PLYM	FURY	8	360	2	1	1	26	700	700	1	99	99	+06	+06	4500	14.0	1	75	57	29.24	2
6028	0135	011077	76	PLYM	FURY	8	360	2	1	1	26	680	700	1	99	99	+06	+06	4500	14.0	1	75	58	28.85	3
6029	0113	122176	76	PLYM	VOLA	6	225	1	1	2	18	600	750	1	99	99	+02	+02	4000	13.2	1	77	60	29.26	1
6030	0033	110176	76	CHRY	CORD	8	400	2	1	1	26	900	700	1	99	99	+10	+10	4500	14.0	1	81	58	29.49	1
6030	0037	110276	76	CHRY	CORD	8	400	2	1	1	26	650	700	1	99	99	+08	+10	4500	14.0	1	80	61	29.18	3
6030	0042	110476	76	CHRY	CORD	8	400	2	1	1	26	650	700	1	99	99	+10	+10	4500	14.0	1	81	59	29.14	4
6030	0047	110876	76	CHRY	CORD	8	400	2	1	1	26	650	700	1	99	99	+09	+10	4500	14.0	1	75	55	29.46	A
6030	0051	110976	76	CHRY	CORD	8	400	2	1	1	26	575	700	1	99	99	+09	+10	4500	14.0	1	77	56	28.89	B
6031	0013	101376	76	CHRY	CORD	8	360	2	1	1	26	1150	700	1	39	99	+22	+06	4500	14.0	1	79	63	29.08	1
6031	0016	101476	76	CHRY	CORD	8	360	2	1	1	26	1100	700	1	99	99	+20	+06	4500	14.0	1	79	59	29.20	2
6032	0015	101376	76	CHRY	NEWP	8	400	4	1	1	26	800	720	1	99	99	+10	+10	5000	14.7	1	80	58	29.03	1
5033	0004	100776	75	CHRY	NEWY	8	440	4	1	1	26	600	750	1	99	99	+08	+08	5500	15.3	1	82	62	29.45	1
5033	0011	101276	75	CHRY	NEWY	8	440	4	1	1	26	750	750	1	99	99	+08	+08	5500	15.3	1	81	64	29.11	3
5033	0018	101476	75	CHRY	NEWY	8	440	4	1	1	26	700	750	1	99	99	+09	+08	5500	15.3	1	81	59	28.99	4

APPENDIX A

LISTING OF VEHICLE AND TEST PARAMETERS

DETROIT

MANUFACTURER: FORD

VEH	RUN	DATE	YR	MAKE	MODL	C	CID	V	T	A	FT	IRPM	IRPMS	P	Dw	DWS	IGN	IGNS	INRT	RLHP	L	DB	WB	BAROM	TEST
6034	0173	012877	76	FORD	PINT	4	140	2	4	2	13	720	550	1	99	99	+01	+06	3000	10.3	2	78	54	28.66	1
6034	0177	020177	76	FORD	PINT	4	140	2	4	2	13	560	550	1	99	99	+06	+06	3000	10.3	2	77	54	29.43	2
6035	0155	012077	76	FORD	MUST	6	171	2	1	2	13	710	700	1	99	99	+11	+12	3500	12.3	1	75	53	29.15	1
6035	0158	012277	76	FORD	MUST	6	171	2	1	2	13	750	700	1	99	99	+18	+12	3500	12.3	1	78	54	29.62	5
6035	0162	012477	76	FORD	MUST	6	171	2	1	2	13	950	700	1	99	99	+18	+12	3500	12.3	1	80	55	29.02	6
6035	0166	012577	76	FORD	MUST	6	171	2	1	2	13	620	700	1	99	99	+12	+12	3500	12.3	1	79	55	28.95	7
6035	0168	012677	76	FORD	MUST	6	171	2	1	2	13	660	700	1	99	99	+12	+12	3500	12.3	1	79	55	28.60	8
6035	0172	012777	76	FORD	MUST	6	171	2	1	2	13	640	700	1	99	99	+12	+12	3500	12.3	1	78	55	28.81	9
6036	0153	011977	76	FORD	MUST	4	140	2	1	2	13	800	550	1	99	99	+19	+20	3000	10.3	2	84	64	29.12	1
6037	0174	012877	76	FORD	MUST	4	140	2	1	2	13	800	550	1	99	99	+14	+20	3000	10.3	2	76	54	28.97	1
6037	0180	020277	76	FORD	MUST	4	140	2	1	2	13	650	550	1	99	99	+20	+20	3000	10.3	2	73	54	29.25	2
6038	0189	020877	76	FORD	MUST	6	171	2	1	2	13	650	700	1	99	99	+12	+12	3500	12.3	1	78	55	29.66	1
6039	0171	012677	76	FORD	GRAN	6	250	1	1	2	19	800	750	1	99	99	+14	+12	4000	13.2	1	77	55	28.82	1
6040	0179	020277	76	FORD	GRAN	6	250	1	1	1	19	700	750	1	99	99	+10	+12	4000	13.2	1	76	54	29.50	1
6040	0183	020377	76	FORD	GRAN	6	250	1	1	1	19	620	750	1	99	99	+17	+12	4000	13.2	1	78	55	28.93	5
6040	0186	020477	76	FORD	GRAN	6	250	1	1	1	19	450	750	1	99	99	+17	+12	4000	13.2	1	70	55	28.83	6
6040	0187	020777	76	FORD	GRAN	6	250	1	1	1	19	480	750	1	99	99	+12	+12	4000	13.2	1	81	55	29.74	7
6040	0190	020877	76	FORD	GRAN	6	250	1	1	1	19	680	750	1	99	99	+12	+12	4000	13.2	1	79	55	29.57	8
6040	0194	020977	76	FORD	GRAN	6	250	1	1	1	19	480	750	1	99	99	+12	+12	4000	13.2	1	73	55	29.32	9
6041	0164	012577	76	FORD	MAVE	6	200	1	1	2	19	780	750	1	99	99	+12	+08	3500	11.2	2	79	55	28.96	1
6042	0167	012677	76	FORD	MAVE	6	250	1	1	2	19	775	750	1	99	99	+12	+12	3500	12.3	1	78	55	28.84	1
6043	0176	020177	76	FORD	GRAN	6	250	1	1	1	19	660	750	1	99	99	+12	+12	4000	13.2	1	77	54	29.35	1
6044	0181	020377	76	FORD	GRAN	8	302	2	1	1	19	550	500	1	99	99	+06	+06	4000	13.2	1	76	55	28.90	1
6044	0185	020477	76	FORD	GRAN	8	302	2	1	1	19	500	500	1	99	99	+06	+06	4000	13.2	1	74	55	28.82	3
6045	0184	020377	76	FORD	GRAN	8	302	2	1	1	19	600	650	1	99	99	+06	+06	4000	13.2	1	80	55	28.90	1
6046	0200	021177	76	FORD	LTD	8	351	2	1	1	24	510	800	1	99	99	+04	+04	5000	14.7	1	76	55	29.33	1
6046	0204	021477	76	FORD	LTD	8	351	2	1	1	24	480	800	1	99	99	+04	+04	5000	14.7	1	77	55	29.04	2
6046	0209	021677	76	FORD	LTD	8	351	2	1	1	24	780	800	1	99	99	+04	+04	5000	14.7	1	75	53	29.50	3
6046	0213	021777	76	FORD	LTD	8	351	2	1	1	24	810	800	1	99	99	+04	+04	5000	14.7	1	75	51	29.39	4
6046	0226	022377	76	FORD	LTD	8	351	2	1	1	24	550	800	1	99	99	+10	+04	5000	14.7	1	81	60	28.56	5
6046	0230	022577	76	FORD	LTD	8	351	2	1	1	24	560	800	1	99	99	+09	+04	5000	14.7	1	82	55	28.98	6
6046	0233	022877	76	FORD	LTD	8	351	2	1	1	24	580	800	1	99	99	+04	+04	5000	14.7	1	77	52	29.28	7
6046	0239	030277	76	FORD	LTD	8	351	2	1	1	24	850	800	1	99	99	+02	+04	5000	14.7	1	82	56	29.54	8
6046	0241	030377	76	FORD	LTD	8	351	2	1	1	24	600	800	1	99	99	+04	+04	5000	14.7	1	81	56	29.23	9
6047	0191	020977	76	FORD	TORI	8	351	2	1	1	26	490	650	1	99	99	+10	+12	4500	14.0	1	80	55	29.27	1
6047	0195	021077	76	FORD	TORI	8	351	2	1	1	26	520	650	1	99	99	+12	+12	4500	14.0	1	75	55	29.46	2
6047	0205	021477	76	FORD	TORI	8	351	2	1	1	26	560	650	1	99	99	+12	+12	4500	14.0	1	75	55	29.08	3
6047	0212	021677	76	FORD	TORI	8	351	2	1	1	26	580	650	1	99	99	+12	+12	4500	14.0	1	75	55	29.42	4

APPENDIX A

LISTING OF VEHICLE AND TEST PARAMETERS

DETROIT

MANUFACTURER: FORD

VEH	RUN	DATE	YR	MAKE	MODL	C	CID	V	T	A	FT	IRPM	IRPMS	P	DW	DWS	IGN	IGNS	INRT	RLHP	L	DB	WB	BAROM	TEST
6048	0199	021177	76	FORD	ELIT	8	351	2	1	1	24	420	650	1	99	99	+10	+12	4500	14.0	1	79	57	29.31	1
6048	0217	021877	76	FORD	ELIT	8	351	2	1	1	24	650	650	1	99	99	+12	+12	4500	14.0	1	80	55	29.07	3
6048	0222	022277	76	FORD	ELIT	8	351	2	1	1	24	580	650	1	99	99	+12	+12	4500	14.0	1	79	57	29.11	4
6049	0201	021177	76	FORD	ELIT	8	351	2	1	1	24	600	650	1	99	99	+14	+12	4500	14.0	1	74	55	29.38	1
6049	0216	021777	76	FORD	ELIT	8	351	2	1	1	24	580	650	1	99	99	+12	+12	4500	14.0	1	82	55	29.11	2
6049	0219	022277	76	FORD	ELIT	8	351	2	1	1	24	540	650	1	99	99	+12	+12	4500	14.0	1	83	59	28.87	3
6049	0225	022377	76	FORD	ELIT	8	351	2	1	1	24	550	650	1	99	99	+12	+12	4500	14.0	1	76	57	28.98	4
6050	0203	021477	76	FORD	TORI	8	351	2	1	2	26	600	650	1	99	99	+10	+12	4500	14.0	1	79	55	29.02	1
6051	0208	021577	76	FORD	ELIT	8	351	2	1	1	26	600	650	1	99	99	+12	+12	4500	14.0	1	76	54	29.41	1
6052	0221	022277	76	FORD	ELIT	8	400	2	1	1	24	650	650	1	99	99	+08	+08	5000	14.7	1	79	57	29.01	1
6053	0192	020977	76	FORD	LTD	8	351	2	1	1	24	600	650	1	99	99	+04	+04	5000	14.7	1	79	55	29.23	1
6054	0207	021577	76	FORD	LTD	8	351	2	1	1	24	700	800	1	99	99	+06	+04	5000	14.7	1	75	54	29.39	1
6055	0224	022377	76	FORD	LTD	8	400	2	1	1	24	500	650	1	99	99	+08	+08	5000	14.7	1	72	56	28.97	1
6055	0231	022677	76	FORD	LTD	8	400	2	1	1	24	625	650	1	99	99	+08	+08	5000	14.7	1	82	56	29.16	2
6055	0235	022877	76	FORD	LTD	8	400	2	1	1	24	530	650	1	99	99	+08	+08	5000	14.7	1	76	50	29.22	3
6056	0223	022277	76	FORD	THUN	8	460	4	1	1	26	580	650	1	99	99	+08	+08	5500	15.3	1	77	58	29.01	1
6056	0228	022577	76	FORD	THUN	8	460	4	1	1	26	610	650	1	99	99	+08	+08	5500	15.3	1	78	55	28.76	2
6057	0244	030477	76	FORD	THUN	8	460	4	1	1	26	640	650	1	99	99	+08	+08	5500	15.3	1	79	54	28.83	1
6058	0242	030477	76	MERC	MONA	6	250	1	1	1	19	640	600	1	99	99	+06	+12	4000	13.2	1	78	55	29.14	1
6059	0157	012177	76	MERC	MONA	8	302	2	1	1	19	650	650	1	99	99	+12	+06	4000	13.2	1	81	55	29.32	1
6059	0170	012777	76	MERC	MONA	8	302	2	1	1	19	750	650	1	99	99	+06	+06	4000	13.2	1	78	55	28.78	3
6059	0175	013177	76	MERC	MONA	8	302	2	1	1	19	550	650	1	99	99	+06	+06	4000	13.2	1	79	54	29.00	4
6060	0206	021477	76	MERC	MONA	8	302	2	1	1	19	420	650	1	99	99	+06	+06	4000	13.2	1	81	59	29.35	1
6060	0206	021477	76	MERC	MONA	8	302	2	1	1	19	440	650	1	99	99	+06	+06	4000	13.2	1	72	54	29.21	2
6061	0229	022577	76	MERC	COUG	8	351	2	1	1	26	700	650	1	99	99	+09	+12	4500	14.0	1	85	58	28.91	1
6061	0232	022677	76	MERC	COUG	8	351	2	1	1	26	650	650	1	99	99	+10	+12	4500	14.0	1	78	54	29.15	3
6061	0236	022877	76	MERC	COUG	8	351	2	1	1	26	530	650	1	99	99	+12	+12	4500	14.0	1	81	52	29.24	4
6062	0234	022877	76	MERC	MONG	8	351	2	1	1	26	520	650	1	99	99	+12	+12	4500	14.0	1	79	53	29.25	1
6062	0238	030177	76	MERC	MONG	8	351	2	1	1	26	500	650	1	99	99	+12	+12	4500	14.0	1	80	53	29.36	3
6062	0240	030277	76	MERC	MONG	8	351	2	1	1	26	590	650	1	99	99	+12	+12	4500	14.0	1	79	51	29.48	4
6062	0243	030477	76	MERC	MONG	8	351	2	1	1	26	660	650	1	99	99	+12	+12	4500	14.0	1	81	59	29.87	A
6063	0248	030877	76	MERC	MARQ	8	400	2	1	1	24	690	650	1	99	99	+12	+12	5000	14.7	1	76	56	29.27	1
6064	0245	030477	76	MERC	MARQ	8	400	2	1	1	24	550	650	1	99	99	+12	+12	5000	14.7	1	78	52	28.91	1
6064	0246	030777	76	MERC	MARQ	8	400	2	1	1	24	500	650	1	99	99	+12	+12	5000	14.7	1	79	53	29.39	2
6064	0249	030877	76	MERC	MARQ	8	400	2	1	1	24	550	650	1	99	99	+17	+12	5000	14.7	1	75	55	29.24	5
6064	0250	030977	76	MERC	MARQ	8	400	2	1	1	24	550	650	1	99	99	+17	+12	5000	14.7	1	75	58	29.13	6
6064	0255	031177	76	MERC	MARQ	8	400	2	1	1	24	500	650	1	99	99	+12	+12	5000	14.7	1	73	55	29.45	7
6064	0263	031577	76	MERC	MARQ	8	400	2	1	1	24	610	650	1	99	99	+12	+12	5000	14.7	1	70	57	28.89	8
6064	0264	031677	76	MERC	MARQ	8	400	2	1	1	24	600	650	1	99	99	+12	+12	5000	14.7	1	78	56	29.27	9

APPENDIX A

LISTING OF VEHICLE AND TEST PARAMETERS

DETROIT

MANUFACTURER: FORD

VEH	RUN	DATE	YR	MAKE	MODL	C	CID	V	T	A	FT	IRPM	IRPMS	P	DW	DWS	IGN	IGNS	INRT	PLHP	L	OR	WR	BAROM	TEST
6065	0247	030877	76	LINC	CONT	8	460	4	1	1	24	500	650	1	99	99	+08	+08	5500	15.3	1	80	57	29.33	1
6066	0251	031077	76	LINC	MRK4	8	460	4	1	1	26	550	650	1	99	99	+08	+08	5500	15.3	1	78	57	29.32	1
6066	0254	031177	76	LINC	MRK4	8	460	4	1	1	26	570	650	1	99	99	+07	+08	5500	15.3	1	77	56	29.50	5
6066	0260	031477	76	LINC	MRK4	8	460	4	1	1	26	550	650	1	99	99	+13	+08	5500	15.3	1	72	57	29.21	6
6066	0262	031577	76	LINC	MRK4	8	460	4	1	1	26	650	650	1	99	99	+08	+08	5500	15.3	1	75	57	28.98	7
6066	0265	031677	76	LINC	MRK4	8	460	4	1	1	26	580	650	1	99	99	+08	+08	5500	15.3	1	77	54	29.21	8
6066	0269	031877	76	LINC	MRK4	8	460	4	1	1	26	600	650	1	99	99	+08	+08	5500	15.3	1	76	57	28.46	9

APPENDIX A

LISTING OF VEHICLE AND TEST PARAMETERS

DETROIT

MANUFACTURER: GM

VEH	RUN	DATE	YR	MAKE	MODL	C	CID	V	T	A	FT	IRPM	IRPMS	P	Dw	DWS	IGN	IGNS	INRT	RLHP	L	DH	WB	BAROM	TEST
6067	0252	031077	76	BUIC	SKYL	6	231	2	1	1	21	460	600	1	99	99	+12	+12	4000	13.2	1	77	56	29.38	1
6067	0259	031477	76	BUIC	SKYL	6	231	2	1	1	21	500	600	1	99	99	+12	+12	4000	13.2	1	78	60	29.20	3
6068	0353	042977	76	BUIC	REGA	6	231	2	1	2	22	600	600	1	99	99	+12	+12	4000	13.2	1	71	56	29.46	1
6068	0356	050277	76	BUIC	REGA	6	231	2	1	2	22	680	600	1	99	99	+17	+12	4000	13.2	1	76	60	29.39	5
6069	0267	031777	76	BUIC	REGA	8	350	4	1	1	22	600	600	1	99	99	+11	+12	4500	14.0	1	72	53	29.22	1
6069	0271	031877	76	BUIC	REGA	8	350	4	1	1	22	640	600	1	99	99	+11	+12	4500	14.0	1	79	58	28.82	2
6070	0272	031877	76	BUIC	LESA	8	350	4	1	1	26	580	600	1	99	99	+12	+12	5000	14.7	1	77	56	29.02	1
6071	0291	033077	76	BUIC	RIVE	8	455	4	1	1	26	480	600	1	99	99	+06	+12	5000	14.7	1	78	61	28.88	1
6071	0294	040177	76	BUIC	RIVE	8	455	4	1	1	26	580	600	1	99	99	+10	+12	5000	14.7	1	79	61	29.30	2
6072	0258	031477	76	CADI	DEVI	8	500	4	1	1	27	580	600	1	99	99	+08	+06	5500	15.3	1	72	57	29.19	1
6073	0351	042977	76	CADI	COUP	8	500	4	1	1	28	600	600	1	99	99	+06	+06	5500	15.3	1	78	58	29.50	1
6074	0349	042977	76	CHEV	CHEV	4	98	2	1	2	13	950	800	1	99	99	+10	+10	2250	8.8	2	73	54	29.54	1
6075	0360	050477	76	CHEV	CAPR	8	400	4	1	1	22	580	600	1	99	99	+08	+08	5500	15.3	1	75	62	29.33	1
6076	0274	032177	76	CHEV	MONZ	4	140	2	1	1	18	625	750	1	99	99	+15	+12	3000	11.3	1	75	57	29.17	1
6076	0281	032477	76	CHEV	MONZ	4	140	2	1	1	18	600	750	1	99	99	+12	+12	3000	11.3	1	77	56	29.52	2
6076	0283	032577	76	CHEV	MONZ	4	140	2	1	1	18	600	750	1	99	99	+12	+12	3000	11.3	1	77	56	29.51	3
6077	0325	042077	76	CHEV	NOVA	6	250	1	1	2	21	530	550	1	99	99	+09	+12	3500	12.3	1	77	66	29.39	1
6077	0339	042577	76	CHEV	NOVA	6	250	1	1	2	21	550	550	1	99	99	+12	+12	3500	12.3	1	75	56	29.10	2
6077	0344	042777	76	CHEV	NOVA	6	250	1	1	2	21	500	550	1	99	99	+12	+12	3500	12.3	1	75	56	29. 5	3
6078	0345	042877	76	CHEV	NOVA	8	305	2	1	1	21	680	600	1	99	99	+07	+08	4000	13.2	1	74	55	29.23	1
6079	0369	050677	76	CHEV	NOVA	8	305	2	1	1	21	475	600	1	99	99	+08	+08	4000	13.2	1	74	59	29.10	1
6079	0373	050977	76	CHEV	NOVA	8	305	2	1	1	21	500	600	1	99	99	+08	+08	4000	13.2	1	78	58	29.34	2
6079	0376	051077	76	CHEV	NOVA	8	305	2	1	1	21	600	600	1	99	99	+08	+08	4000	13.2	1	81	60	29.30	3
6080	0308	041177	76	CHEV	VETT	8	350	4	1	1	17	550	600	1	99	99	+16	+08	4000	13.2	1	74	62	29.47	1
6080	0311	041377	76	CHEV	VETT	8	350	4	1	1	17	600	600	1	99	99	+08	+08	4000	13.2	1	73	56	29.25	2
6081	0277	032277	76	CHEV	MALI	8	305	2	1	2	22	450	600	1	99	99	+08	+08	4500	14.0	1	75	54	29.21	1
6082	0298	040577	76	CHEV	MONT	8	305	2	1	1	22	460	600	1	99	99	+08	+08	4500	14.0	1	74	55	28.43	1
6082	0299	040677	76	CHEV	MONT	8	305	2	1	1	22	550	600	1	99	99	+08	+08	4500	14.0	1	76	56	29.28	3
6083	0312	041477	76	CHEV	MONT	8	350	2	1	1	22	660	600	1	99	99	+07	+06	4500	14.0	1	76	54	29.48	1
6083	0318	041877	76	CHEV	MONT	8	350	2	1	1	22	575	600	1	99	99	+11	+06	4500	14.0	1	78	61	29.32	5
6083	0329	042177	76	CHEV	MONT	8	350	2	1	1	22	580	600	1	99	99	+11	+06	4500	14.0	1	76	65	29.36	6
6083	0334	042277	76	CHEV	MONT	8	350	2	1	1	22	610	600	1	99	99	+06	+06	4500	14.0	1	75	64	29.42	7
6083	0342	042677	76	CHEV	MONT	8	350	2	1	1	22	610	600	1	99	99	+06	+06	4500	14.0	1	78	57	29.09	8
6083	0343	042777	76	CHEV	MONT	8	350	2	1	1	22	580	600	1	99	99	+06	+06	4500	14.0	1	73	54	29.09	9
6084	0314	041577	76	CHEV	MONT	8	350	2	1	1	22	600	600	1	99	99	+10	+06	4500	14.0	1	79	54	29.45	1
6084	0319	041877	76	CHEV	MONT	8	350	2	1	1	22	610	600	1	99	99	+06	+06	4500	14.0	1	76	63	29.26	2
6084	0328	042177	76	CHEV	MONT	8	350	2	1	1	22	570	600	1	99	99	+06	+06	4500	14.0	1	75	64	29.40	3
6084	0333	042277	76	CHEV	MONT	8	350	2	1	1	22	550	600	1	99	99	+06	+06	4500	14.0	1	74	67	29.41	4
6085	0358	050377	76	CHEV	MONT	8	400	4	1	1	22	600	600	1	99	99	+02	+08	4500	14.0	1	72	56	29.55	1
6085	0362	050477	76	CHEV	MONT	8	400	4	1	1	22	600	600	1	99	99	+08	+08	4500	14.0	1	77	65	29.13	2
6085	0366	050577	76	CHEV	MONT	8	400	4	1	1	22	600	600	1	99	99	+08	+08	4500	14.0	1	78	67	28.90	3

APPENDIX A

LISTING OF VEHICLE AND TEST PARAMETERS

DETROIT

MANUFACTURER: GM

VEH	RUN	DATE	YR	MAKE	MODL	C	CID	V	T	A	FT	IRPM	IRPMS	P	DW	DWS	IGN	IGNS	INRT	RLHP	L	DB	WB	BAROM	TEST
6086	0350	042977	76	CHEV	IMPA	8	350	2	1	1	26	580	600	1	99	99	+06	+06	5000	14.7	1	75	57	29.54	1
6087	0346	042877	76	CHEV	IMPA	8	350	2	1	2	26	675	600	1	99	99	+08	+06	5000	14.7	1	74	55	29.28	1
6087	0352	042977	76	CHEV	IMPA	8	350	2	1	2	26	660	600	1	99	99	+06	+06	5000	14.7	1	74	57	29.45	2
6088	0361	050477	76	CHEV	CAPR	8	350	4	1	1	26	610	600	1	99	99	+06	+06	5000	14.7	1	75	61	29.45	3
6088	0365	050577	76	CHEV	CAPR	8	350	4	1	1	26	650	600	1	99	99	+14	+08	5000	14.7	1	75	64	29.15	1
6089	0287	032977	76	CHEV	MONT	8	400	4	1	1	22	600	600	1	99	99	+08	+08	5000	14.7	1	76	67	28.95	2
6089	0290	033077	76	CHEV	MONT	8	400	4	1	1	22	400	600	1	99	99	+08	+08	4500	14.0	1	78	61	28.91	1
6090	0309	041277	76	OLDS	CUTL	8	260	2	1	1	22	520	600	1	99	99	+09	+08	4500	14.0	1	80	62	28.87	3
6090	0315	041577	76	OLDS	CUTL	8	260	2	1	1	22	600	550	1	99	99	+16	+18	4500	14.0	1	75	56	29.49	1
6090	0317	041877	76	OLDS	CUTL	8	260	2	1	1	22	560	550	1	99	99	+23	+18	4500	14.0	1	76	55	29.43	5
6090	0321	041977	76	OLDS	CUTL	8	260	2	1	1	22	530	550	1	99	99	+23	+18	4500	14.0	1	76	59	29.36	6
6090	0331	042177	76	OLDS	CUTL	8	260	2	1	1	22	540	550	1	99	99	+18	+18	4500	14.0	1	79	63	29.33	7
6090	0336	042277	76	OLDS	CUTL	8	260	2	1	1	22	500	550	1	99	99	+18	+18	4500	14.0	1	76	65	29.38	8
6091	0300	040677	76	OLDS	VIST	8	350	4	1	1	22	540	550	1	99	99	+18	+18	4500	14.0	1	74	61	29.41	9
6091	0310	041277	76	OLDS	VIST	8	350	4	1	1	22	600	550	1	99	99	+16	+20	5000	14.7	1	74	55	29.35	1
6091	0316	041677	76	OLDS	VIST	8	350	4	1	1	22	550	550	1	99	99	+20	+20	5000	14.7	1	78	58	29.45	2
6091	0320	041877	76	OLDS	VIST	8	350	4	1	1	22	480	550	1	99	99	+25	+20	5000	14.7	1	75	55	29.49	5
6091	0323	041977	76	OLDS	VIST	8	350	4	1	1	22	480	550	1	99	99	+25	+20	5000	14.7	1	76	63	29.28	6
6091	0330	042177	76	OLDS	VIST	8	350	4	1	1	22	500	550	1	99	99	+20	+20	5000	14.7	1	76	65	29.33	7
6091	0335	042277	76	OLDS	VIST	8	350	4	1	1	22	550	550	1	99	99	+20	+20	5000	14.7	1	77	66	29.34	8
6092	0381	051377	76	OLDS	CUTL	8	350	4	1	1	22	620	550	1	99	99	+20	+20	5000	14.7	1	74	61	29.42	9
6092	0380	051277	76	OLDS	CUTL	8	350	4	1	1	22	550	550	1	99	99	+22	+22	4500	14.0	1	77	62	29.24	1
6093	0375	051077	76	OLDS	CUTL	8	350	4	1	1	22	630	550	1	99	99	+22	+22	4500	14.0	1	76	60	29.36	2
6093	0378	051177	76	OLDS	CUTL	8	350	4	1	1	22	625	550	1	99	99	+22	+22	4500	14.0	1	77	57	29.39	1
6094	0337	042377	76	OLDS	98	8	455	4	1	1	26	630	550	1	99	99	+22	+22	4500	14.0	1	75	60	29.38	2
6095	0332	042277	76	OLDS	DELT	8	455	4	1	1	22	650	550	1	99	99	+16	+18	5000	14.7	1	75	62	29.35	1
6096	0288	032977	76	PONT	ASTR	4	140	2	1	2	16	430	550	1	99	99	+14	+16	5500	15.3	1	74	67	29.39	1
6096	0292	033177	76	PONT	ASTR	4	140	2	1	2	16	620	750	1	99	99	+14	+12	3000	11.3	1	75	59	29.01	1
6097	0301	040677	76	PONT	VENT	8	260	2	1	1	21	550	750	1	99	99	+12	+12	3000	11.3	1	75	59	29.31	3
6097	0305	041177	76	PONT	VENT	8	260	2	1	1	21	510	550	1	99	99	+18	+18	4000	13.2	1	75	54	29.40	1
6098	0302	040677	76	PONT	GRNP	8	350	2	1	2	25	525	550	1	99	99	+16	+18	4000	13.2	1	77	63	29.46	2
6098	0306	041177	76	PONT	GRNP	8	350	2	1	2	25	600	550	1	99	99	+16	+16	4500	14.0	1	73	53	29.46	1
6099	0345	042777	76	PONT	LEMA	8	350	2	1	1	22	400	550	1	99	99	+16	+16	4500	14.0	1	79	64	29.41	3
6099	0348	042877	76	PONT	LEMA	8	350	2	1	1	22	630	550	1	99	99	+15	+16	4500	14.0	1	76	60	28.91	1
6099	0354	043077	76	PONT	LEMA	8	350	2	1	1	22	650	550	1	99	99	+16	+16	4500	14.0	1	75	55	29.29	2
6099	0382	051977	76	PONT	LEMA	8	350	2	1	1	22	540	550	1	99	99	+16	+16	4500	14.0	1	75	56	29.53	3
6100	0368	050677	76	PONT	GRNS	8	400	4	1	1	22	600	550	1	99	99	+17	+16	4500	14.0	1	75	66	29.34	4
6100	0371	050777	76	PONT	GRNS	8	400	4	1	1	22	680	575	1	99	99	+16	+16	5500	15.3	1	77	62	29.10	1
6100	0377	051077	76	PONT	GRNS	8	400	4	1	1	22	700	575	1	99	99	+16	+16	5500	15.3	1	78	61	29.36	2
												600	575	1	99	99	+16	+16	5500	15.3	1	76	58	29.28	3

Appendix B

LISTING OF TEST VEHICLE USE AND MAINTENANCE DATA

APPENDIX B - LISTING OF TEST VEHICLE USE AND MAINTENANCE DATA

Legend

VEH - Vehicle Number

YR - Model Year

MAKE - Vehicle Make

MODL - Vehicle Model

VIN - Vehicle Identification Number

ODOM - True Mileage

N - Purchased New or Used (1: New; 2: Used)

Y - Yearly Vehicle Miles Traveled (1: 0-5,000; 2: 5,001-10,000; 3: 10,000-15,000; 4: 15,001-20,000; 5: 20,001-30,000; 6: over 30,000)

MD - Altered Engine and/or Exhaust Components (1: Yes; 2: No; 3: don't know)

C - Major City Street Driving (1: all, 2: most; 3: some; 4: little/none)

S - Rural Road Driving (1: all; 2: most; 3: some; 4: little/none)

E - Rural Expressway Driving (1: all; 2: most; 3: some; 4: little/none)

W - Driving To and From Work (1: all; 2: most; 3: some; 4: little/none)

G - Shopping (1: all; 2: most; 3: some; 4: little/none)

B - Business Not To and From Work (1: all; 2: most; 3: some; 4: little/none)

V - Social, Vacation, etc. (1: all; 2: most; 3: some; 4: little/none)

TD - Number of Trips Made on a Typical Day (One Trip is Defined as Starting the Engine, Traveling Some Distance and Stopping the Engine)

W - Number of Wide Open Throttle Accelerations Used Per Week

U - Vehicle Operated 50% of the Time on Unpaved Roads, in Competitive Events, or in Hauling or Transporting Loads Heavier than for which it was Designed (1: Yes; 2: No; 3: don't know)

H - Hard Starting (1: Yes; 2: No)

ST - Stalling (1: Yes; 2: No)

R - Rough Idle (1: Yes; 2: No)

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M - Engine Misfiring (1: Yes; 2: No)

A - Poor Acceleration (1: Yes; 2: No)

SB - Engine Performance Problem - Stumbling (1: Yes; 2: No)

DS - Engine Performance Problem - Dieseling (1: Yes; 2: No)

D - Has Vehicle ever had Major Damage to: a) cooling system; b) eninge; c) fuel tank; d) exhaust system; e) no damage (1: Yes; 2: No; 3: don't know)

LO - Date of Last Oil Change (1: 0-6 mos; 2: 6-12 mos; 3: over 1 year; 4: don't know)

LT - Last Tune Up (1: 0-6 mos; 2: 6-123 mos; 3: over 1 year; 4: don't know)

MAR - Vehicle Maintained Manufacturer's Recommended Specifications (1: Yes; 2: No; 3: don't know)

NW - Number of Warranty Repairs

PB - Was Vehicle Returned for Performance Problems (1: No Warranty; 2: Never Returned; 3: Yes; 4: No)

UL - Unleaded Fuel Required (1: Yes; 2: No)

L - Number of Times Leaded Fuel Was Used (1: Not Required; 2: Never; 3: Seldom; 4: Occasionally; 5: Frequency; 6: don't know)

H2S - Have You or Others Noticed a Hydrogen Sulfide (rotten eggs) Odor in this Vehicle's Exhaust? (1: never; 2: rearely; 3: occasionally; 4: regularly; 5: don't know)

APPENDIX B

LISTING OF TEST VEHICLE USE AND MAINTENANCE DATA

DETROIT

MANUFACTURER: CHRY

VEH	YR	MAKE	MODL	VIN	ODOM	N	Y	MD	C	S	E	W	G	B	V	TD	WT	U	H	ST	R	M	A	SB	DS	D	LO	LT	MAR	NW	PB	UL	L	H2S
6001	76	DODG	ASPE	NP29G6B369625	5833	1	4	2	4	4	4	4	4	1	4	06	1	2	2	2	2	2	2	2	2	222212	1	1	1	2	2	1	2	1
6002	76	DODG	ASPE	NH45C6B139015	2776	1	2	2	4	4	4	2	3	4	3	06	1	2	2	2	2	2	2	2	2	222212	1	1	1	3	4	1	2	4
6003	76	DODG	ASPE	NL41C6F175218	9326	1	3	2	3	4	4	2	3	4	4	04	3	2	2	2	2	2	1	2	2	222212	3	1	1	4	4	1	2	1
6004	76	DODG	ASPE	NL45C6B193156	7293	1	3	2	2	4	4	3	3	4	4	05	2	2	2	1	2	2	2	2	2	222212	3	1	1	2	2	1	2	3
6005	76	DODG	ASPE	NH29C6B166733	12131	1	4	2	3	4	4	2	4	4	3	05	1	2	1	1	1	1	1	1	2	222212	3	1	1	4	3	1	2	1
6006	76	DODG	ASPE	NP41G6F187046	7031	1	3	2	3	4	4	2	3	4	4	03	1	2	1	1	1	1	1	1	2	222212	3	3	1	5	3	1	2	3
6007	76	DODG	ASPE	NH29G6B258537	11323	1	3	2	3	4	4	2	3	4	4	02	1	2	2	2	2	2	2	2	2	222212	3	1	1	4	3	1	2	4
6008	76	DODG	CHAR	XS22G6R159659	11571	1	3	2	2	4	4	1	3	4	4	03	1	2	2	2	2	2	2	2	2	222212	3	1	1	2	2	1	2	2
6009	76	DODG	CORO	WL41G6A189240	11682	1	4	2	1	4	4	1	3	4	4	04	3	2	1	1	1	1	1	2	1	222212	3	1	1	4	4	2	1	1
6010	76	DODG	CHAR	XS22K6R309002	7896	1	4	2	3	4	4	2	4	3	4	05	3	2	2	2	2	2	2	2	2	222212	3	1	1	4	3	1	2	3
6011	76	DODG	CHAR	XS22G6R270003	9810	1	4	2	3	4	4	2	3	4	4	06	1	2	2	2	1	1	1	2	1	222212	3	1	1	5	3	1	2	1
6012	76	DODG	CORO	WL46K6A181196	7090	1	3	2	3	4	4	3	2	4	4	03	1	2	2	2	1	2	2	2	2	222212	3	1	1	3	4	1	2	1
6013	76	DODG	MONA	DH23K6D216068	4348	1	2	2	4	4	4	2	3	4	4	03	2	2	2	2	2	2	2	2	1	222212	1	1	1	5	3	1	2	1
6014	76	PLYM	VOLA	HL45C6B376390	9019	1	5	2	3	4	4	3	4	2	4	03	1	2	2	2	2	1	2	2	2	222212	3	1	1	3	4	1	2	1
6015	76	PLYM	VOLA	HH45C6B383872	6621	1	5	2	4	4	2	4	3	4	2	03	1	2	1	1	2	2	2	2	1	222212	3	1	1	2	2	1	2	1
6016	76	PLYM	DUST	VL29C6G162525	11626	1	3	2	3	4	4	2	3	4	4	02	1	2	1	2	2	2	1	2	2	222212	3	1	1	3	4	1	2	1
6017	76	PLYM	DUST	VL29C6G120598	12253	2	3	2	4	4	4	1	3	4	4	02	1	2	2	2	2	2	1	1	2	222212	3	3	1	2	3	1	2	4
6018	76	PLYM	DUST	VL29C6G166217	9252	1	3	2	3	4	4	4	1	4	3	02	1	2	2	1	2	2	1	1	2	222212	3	1	1	5	4	1	2	4
6019	76	PLYM	VOLA	HP41C6F185092	11807	1	3	2	2	4	4	1	3	4	4	06	1	2	1	2	2	2	2	2	2	222212	3	2	1	5	3	1	2	4
6020	76	PLYM	VOLA	HH45G6B341730	9500	1	3	2	3	4	4	1	3	4	4	05	4	2	1	1	1	2	1	2	2	222212	3	2	1	5	3	1	2	1
6021	76	PLYM	VOLA	HH29G6B274817	1028	1	3	2	2	4	4	2	3	4	4	01	1	2	2	1	2	2	1	2	2	222212	3	3	1	4	3	1	2	1
6022	76	PLYM	VOLA	HH41C6F184707	9237	1	4	2	2	4	4	2	3	4	4	04	1	2	1	1	1	1	1	1	2	222212	3	1	1	5	3	1	2	4
6023	76	PLYM	FURY	RL41G6A228573	11675	1	3	2	3	4	4	4	1	3	3	04	1	2	2	1	1	2	2	2	2	222212	3	1	1	4	4	1	2	4
6024	76	PLYM	FURY	RL23G6A249102	2343	1	2	2	3	4	4	2	3	4	4	04	1	2	2	2	2	2	2	2	2	222212	1	1	1	5	4	1	2	1
6025	76	PLYM	FURY	RH23K6A248841	3966	1	2	2	2	4	4	3	4	2	4	05	1	2	2	2	2	2	2	2	2	222212	2	2	1	4	4	1	2	4
6026	76	PLYM	GRNF	PH41N6D172151	6248	1	2	2	2	4	4	1	4	4	3	03	1	2	2	1	2	2	2	2	2	222212	3	1	1	3	4	2	1	1
6027	76	PLYM	VOLA	HL29C6B394934	4025	1	2	2	2	4	4	2	3	4	3	03	1	2	2	2	2	2	2	2	2	222212	3	2	1	3	4	1	2	1
6028	76	PLYM	FURY	RH23K6A245657	6521	1	2	2	3	4	4	2	3	4	4	02	1	2	2	2	2	2	2	2	2	222212	3	1	2	5	3	1	2	4
6029	76	PLYM	VOLA	HL45C6B444470	4581	1	3	2	3	4	4	2	3	4	4	02	1	2	1	1	1	2	2	1	1	222212	3	3	1	5	3	1	2	1
6030	76	CHRY	CORD	SS22M6R150281	12433	1	3	2	3	4	3	3	4	1	4	03	1	2	2	2	2	1	1	1	1	222212	3	3	1	5	3	1	2	3
6031	76	CHRY	CORD	SS22K6R206183	9754	1	4	2	2	4	4	2	3	4	4	03	3	2	2	1	2	2	2	1	2	222212	3	1	1	4	4	1	2	3
6032	76	CHRY	NEWP	CM23M6C173955	2529	1	1	2	3	4	4	3	1	4	4	01	1	2	1	2	2	2	2	2	2	222212	1	1	1	2	2	2	1	1
5033	75	CHRY	NEWY	CS23T5C165448	7765	1	2	2	4	4	4	2	4	4	4	03	1	2	2	2	2	2	1	1	1	222212	3	1	1	4	4	2	2	4

APPENDIX B

LISTING OF TEST VEHICLE USE AND MAINTENANCE DATA

DETROIT

MANUFACTURER: FORD

VEH	YR	MAKE	MODL	VIN	ODOM	N	Y	MD	C	S	E	W	G	B	V	TD	WT	U	H	ST	R	M	A	SB	DS	D	LO	LT	MAR	NW	PB	UL	L	H2S
6034	76	FORD	PINT	6X11Y259142	5902	1	3	2	3	4	4	3	3	4	2	05	1	2	2	2	2	2	2	2	2	222212	3	1	1	5	4	1	2	4
6035	76	FORD	MUST	6F05Z233516	5171	1	3	2	2	4	4	3	2	4	3	04	1	2	2	2	2	2	2	2	2	222212	3	1	1	3	4	1	2	1
6036	76	FORD	MUST	6F03Y107599	8642	1	3	2	2	4	4	3	2	4	4	04	1	2	2	2	2	2	2	2	2	222212	3	1	1	5	4	1	2	1
6037	76	FORD	MUST	6F02Y174212	9194	1	2	2	4	4	4	1	4	4	4	04	1	2	2	2	2	2	2	2	2	222212	3	1	1	5	4	1	2	1
6038	76	FORD	MUST	6F03Z197394	7059	1	2	2	4	4	4	3	3	4	2	02	1	2	2	2	2	2	2	2	2	222212	3	2	4	3	4	1	2	1
6039	76	FORD	GRAN	6W82L199336	11542	1	3	2	3	4	4	2	3	4	4	04	1	2	2	2	2	2	2	2	2	222212	3	1	1	5	3	1	2	4
6040	76	FORD	GRAN	6W82L265123	7070	1	3	2	4	4	4	1	4	4	4	03	1	2	2	1	2	2	2	2	2	222212	3	2	3	4	4	1	2	1
6041	76	FORD	MAVE	6X91T264378	3282	1	2	2	4	4	4	4	1	4	4	02	1	2	2	2	2	2	2	2	2	222212	3	2	1	5	4	1	2	4
6042	76	FORD	MAVE	6K91L169695	6406	1	3	2	2	4	4	2	3	4	4	03	1	2	2	2	2	2	2	2	2	222212	1	1	1	3	4	1	2	4
6043	76	FORD	GRAN	6W82L199340	5738	1	3	2	3	4	4	3	2	4	4	03	1	2	2	2	2	2	1	2	2	222212	1	1	1	3	4	1	2	4
6044	76	FORD	GRAN	6W82F191871	5289	1	2	2	3	4	3	3	1	4	4	02	1	2	2	1	2	2	2	2	2	222212	3	3	3	5	4	1	2	3
6045	76	FORD	GRAN	6W83F276796	6144	1	3	2	4	4	4	2	3	4	4	02	1	2	2	2	2	2	2	1	2	222212	1	1	1	2	2	1	2	3
6046	76	FORD	LTD	6B63H175563	11613	1	3	2	3	4	4	1	3	4	3	04	4	2	1	1	2	2	2	2	2	222212	3	2	1	3	4	1	2	4
6047	76	FORD	TORI	6H25H179447	8350	1	3	2	3	4	4	1	3	4	4	06	1	2	2	2	2	2	2	2	2	222212	3	6	1	3	4	1	2	1
6048	76	FORD	ELIT	6G21H219974	13490	1	4	2	3	4	4	3	3	4	2	05	4	2	2	2	2	2	2	2	2	222212	3	1	1	2	4	1	2	1
6049	76	FORD	ELIT	6G21H255737	7854	1	4	2	4	4	4	4	1	4	4	02	1	2	2	2	2	2	2	2	2	222212	3	1	1	2	4	1	2	1
6050	76	FORD	TORI	6H25H189147	13760	1	3	2	3	4	3	3	2	4	4	03	1	2	2	2	2	2	2	2	2	222212	3	1	1	2	2	1	2	1
6051	76	FORD	ELIT	6G21H205477	10387	1	3	2	2	4	4	2	3	4	4	04	1	2	2	2	2	1	2	2	1	222212	3	1	1	2	2	1	2	1
6052	76	FORD	ELIT	6G21S248440	6983	1	2	2	4	4	4	1	4	4	4	02	1	2	2	2	2	2	2	2	1	222212	3	1	1	5	4	1	2	1
6053	76	FORD	LTD	6B65H234630	6984	1	3	2	3	4	4	3	2	4	4	03	1	2	2	2	2	2	2	2	2	222212	3	1	1	2	2	1	2	1
6054	76	FORD	LTD	6B66H254365	11595	1	5	2	3	4	4	2	3	4	4	05	1	2	2	2	2	2	2	2	2	222212	3	1	1	3	4	1	2	3
6055	76	FORD	LTD	6B64S215352	5433	1	2	2	3	4	4	2	3	4	4	05	3	2	2	2	2	2	2	2	2	222212	3	1	1	2	2	1	2	3
6056	76	FORD	THUN	6Y87A128950	10239	1	3	2	3	4	3	3	3	4	2	04	1	2	2	2	2	2	2	1	2	222212	3	3	1	4	4	1	2	3
6057	76	FORD	THUN	6Y87A130426	14790	1	4	2	4	4	4	2	3	4	4	03	1	2	2	2	2	2	2	2	2	222212	3	1	1	3	4	1	2	4
6058	76	MERC	MONA	6W34L574799	6903	1	3	2	3	3	3	4	3	1	4	10	3	2	2	1	1	1	1	2	1	222212	1	3	1	5	3	1	2	1
6059	76	MERC	MONA	6W35F582281	9236	1	5	2	2	4	4	2	3	4	3	02	2	2	2	2	2	2	2	2	2	222212	3	3	1	5	3	1	2	4
6060	76	MERC	MONA	6W34F576290	3947	1	2	2	2	4	4	2	3	4	3	06	1	2	2	1	2	2	2	2	2	222212	3	1	1	4	4	1	2	4
6061	76	MERC	COUG	6A93H572135	12910	1	4	2	2	4	4	1	4	4	4	04	1	2	2	2	1	2	2	2	2	222212	3	1	1	3	4	1	2	3
6062	76	MERC	MONG	6H07H539461	8129	1	3	2	3	4	4	4	1	4	4	06	1	2	2	2	2	2	2	2	2	222212	1	1	1	5	4	1	2	1
6063	76	MERC	MARQ	6B63S508934	10290	1	2	2	2	4	4	1	4	4	4	02	1	2	2	2	2	2	2	2	2	222212	3	1	1	2	2	1	2	1
6064	76	MERC	MARQ	6Z66S558287	9827	1	3	2	2	4	3	2	3	4	3	03	1	2	2	2	2	2	2	2	2	222212	3	1	1	2	2	1	2	1
6065	76	LINC	CONT	6Y82A923023	13495	1	3	2	3	4	3	2	3	4	3	02	1	2	2	2	2	2	2	2	2	222212	3	1	1	2	2	1	2	1
6066	76	LINC	MRK4	6Y89A896744	10665	1	3	2	1	4	4	4	4	1	4	05	1	2	2	2	2	1	2	2	2	222212	3	1	1	4	3	1	2	4
								2	4	3	4	4	1	4	4	02	1	2	2	2	2	2	2	2	1	222212	3	3	1	4	4	1	2	3
																											3	2	1	2	2	1	2	1

APPENDIX B

LISTING OF TEST VEHICLE USE AND MAINTENANCE DATA

DETROIT

MANUFACTURER: GM

VEH	YR	MAKE	MODL	VIN	ODOM	N	Y	MD	C	S	E	W	G	B	V	TD	WT	U	H	ST	R	M	A	SB	DS	D	LO	LT	MAR	NW	PB	UL	L	H2S
6067	76	BUIC	SKYL	4B27C6K143690	3289	1	2	2	3	4	4	4	2	4	3	02	1	2	2	2	2	2	2	2	2	222212	2	1	1	2	2	1	2	1
6068	76	BUIC	REGA	4J57C6H259647	9093	1	3	2	3	4	4	2	4	4	4	02	1	2	2	2	2	2	2	2	2	222212	3	1	1	4	3	1	2	1
6069	76	BUIC	REGA	4J57J6H238549	11514	1	3	2	4	4	3	3	3	3	4	03	1	2	2	2	2	2	2	2	2	222212	3	1	1	5	4	1	2	1
6070	76	BUIC	LESA	4P57J6H551969	13584	1	3	2	3	4	4	2	4	4	3	04	1	2	2	2	2	2	2	2	2	222212	3	1	1	3	4	1	2	1
6071	76	BUIC	RIVE	4287Y6H540147	10385	1	3	2	3	4	3	2	3	4	3	04	1	2	2	2	2	2	2	2	2	222212	3	1	1	5	4	1	2	1
6072	76	CADI	DEVI	6D49S6Q233991	8757	1	3	2	2	4	4	1	4	4	4	02	1	2	2	2	2	2	2	2	2	222212	3	1	1	2	2	1	2	3
6073	76	CADI	COUP	6D47S6Q232569	2523	1	2	2	2	4	4	4	3	4	2	02	1	2	1	2	2	1	2	2	2	222212	3	1	1	4	3	1	2	1
6074	76	CHEV	CHEV	1B08E6Y235649	11401	2	3	2	2	4	4	2	3	4	3	02	1	2	2	2	2	2	2	2	2	222212	3	1	1	3	4	1	2	4
6075	76	CHEV	CAPR	1N45U6J274847	5588	1	2	2	4	4	2	4	4	4	1	00	1	2	2	2	2	2	2	2	2	222212	3	1	1	3	4	1	2	3
6076	76	CHEV	MONZ	1M27B62137198	6497	1	2	2	3	4	4	3	3	3	3	02	4	2	2	2	2	2	2	2	2	222212	3	1	1	3	3	1	2	3
6077	76	CHEV	NOVA	1X27D6W254159	13470	1	3	2	2	4	4	2	3	4	4	05	1	2	2	2	2	2	2	2	2	222212	3	1	1	2	2	1	2	4
6078	76	CHEV	NOVA	1X27Q6W207947	3941	1	1	2	4	4	4	1	4	4	4	02	1	2	2	2	2	2	2	2	2	222212	3	1	1	2	2	1	2	1
6079	76	CHEV	NOVA	1Y69Q6W217609	11457	2	2	2	4	2	4	1	4	4	4	02	1	1	2	2	2	2	2	2	2	222212	3	1	1	3	4	1	2	1
6080	76	CHEV	VETT	1237L6S434528	7143	2	3	2	4	4	4	3	3	4	3	02	1	2	2	2	2	2	2	2	2	222212	3	1	1	2	2	1	2	1
6081	76	CHEV	MALI	1C29Q61467218	9469	1	3	2	2	4	4	4	3	4	2	02	1	2	2	2	2	2	2	2	2	222212	3	1	1	5	4	1	2	1
6082	76	CHEV	MONT	1H57Q61499728	9698	2	3	2	3	4	4	3	3	4	3	03	1	2	2	2	2	2	2	2	2	222212	6	6	4	2	2	1	2	3
6083	76	CHEV	MONT	1H57V61488758	14706	1	4	2	4	4	3	2	3	4	4	04	1	1	2	2	2	2	2	2	2	222212	3	1	1	2	2	1	2	4
6084	76	CHEV	MONT	1H57V61440533	14328	1	3	2	1	4	4	3	4	3	4	04	1	2	2	2	2	2	2	2	2	222212	3	1	1	3	4	1	2	3
US 6085	76	CHEV	MONT	1H57U61489133	11930	1	3	2	4	4	2	2	3	4	3	04	1	2	2	2	2	2	2	2	2	222212	2	1	4	2	2	1	2	4
6086	76	CHEV	IMPA	1L69V61218817	11584	1	3	2	2	4	4	3	3	3	3	02	1	2	2	2	2	2	2	2	2	222212	3	1	1	5	3	1	2	4
6087	76	CHEV	IMPA	1L69V61234804	5639	1	3	2	4	4	4	4	3	4	2	06	1	2	2	2	1	2	2	2	2	222212	1	1	3	4	4	1	2	3
6088	76	CHEV	CAPR	1N39L61230657	6546	1	3	2	3	4	4	4	3	4	2	04	1	2	2	2	2	2	2	2	2	222212	3	1	1	3	4	1	2	1
6089	76	CHEV	MONT	1H57U6D527331	4504	1	2	2	4	4	4	1	4	4	4	02	1	2	2	2	2	2	2	2	2	222212	3	1	1	3	4	1	2	1
6090	76	OLDS	CUTL	3J57F6M334274	9206	1	3	2	2	3	3	4	3	4	2	02	2	1	2	2	2	2	2	1	2	222212	3	1	1	2	2	1	2	3
6091	76	OLDS	VIST	3J35R6D185637	12996	1	3	2	4	4	4	2	4	3	4	05	1	2	2	2	2	2	2	2	2	222212	3	1	1	5	4	1	2	3
6092	76	OLDS	CUTL	3J57R6D225320	8776	1	3	2	3	4	3	4	2	4	3	02	1	2	2	2	2	2	2	2	2	222212	3	1	1	4	3	1	2	1
6093	76	OLDS	CUTL	3J57R6D233216	12222	1	3	2	3	4	4	3	3	4	2	02	1	2	2	2	2	2	2	2	2	222212	4	1	1	5	3	1	2	1
6094	76	OLDS	98	3X37T6M364900	13292	1	3	2	2	4	4	3	2	4	4	05	1	2	2	2	2	2	2	2	2	222212	3	2	1	4	4	1	2	3
6095	76	OLDS	DELT	3R45T6X177407	5322	1	2	2	1	4	4	4	4	4	1	02	1	2	2	2	2	2	2	2	2	222212	3	1	1	4	4	1	2	1
6096	76	PONT	ASTR	2C15B6U530015	12274	1	5	2	3	4	4	4	4	1	4	20	1	2	2	2	2	2	2	1	2	222212	3	1	1	5	4	1	2	3
6097	76	PONT	VENT	2Y69F6W137726	13377	1	5	2	3	4	4	3	3	2	4	15	1	2	2	2	2	2	2	2	2	222212	3	2	3	3	4	1	2	3
6098	76	PONT	GRNP	2J57M6P314213	6291	1	3	2	4	4	4	4	1	4	4	03	1	2	2	2	2	2	2	2	2	222212	2	1	3	2	2	1	2	4
6099	76	PONT	LEMA	2F37M6A188193	10995	1	3	2	3	4	4	2	3	4	4	04	1	2	2	2	2	2	2	2	2	222212	3	3	1	5	4	1	2	1
6100	76	PONT	GRNS	2P35Z6X145833	7245	1	2	2	4	4	4	4	2	4	3	04	1	2	1	1	2	2	2	2	2	222212	3	1	1	5	3	1	2	2

Appendix C

MALADJUSTMENT AND DISABLEMENT INSPECTION RESULTS

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APPENDIX C

MALADJUSTMENT AND DISABLEMENT
INSPECTION RESULTS

DETROIT

MANUFACTURER: CHRY

VEH NO.	INDUCTION SYSTEM INSP	INDUCTION SYSTEM ACT	CARBURETOR + FUEL SYS INSP	CARBURETOR + FUEL SYS ACT	IGNITION SYSTEM INSP	IGNITION SYSTEM ACT	EGR SYSTEM INSP	EGR SYSTEM ACT	AIR PUMP SYSTEM INSP	AIR PUMP SYSTEM ACT	PCV SYSTEM INSP	PCV SYSTEM ACT	EXHAUST SYSTEM INSP	EXHAUST SYSTEM ACT	EVAP CONTR SYSTEM INSP	EVAP CONTR SYSTEM ACT	OTHER EMISS RELATED COMP INSP	OTHER EMISS RELATED COMP ACT	MAN HRS. FOR INSP	MAN HRS. FOR ACT.
6001	PASS	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	.5	0.0
6002	PASS	N A	FAIL	N A	FAIL	ADJ	PASS	N A	N/A	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	.8	.1
6003	PASS	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	1.0	0.0
6004	PASS	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	.5	0.0
6005	PASS	N A	FAIL	N A	FAIL	ADJ	PASS	N A	N/A	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	1.0	.2
6006	PASS	N A	FAIL	ADJ	PASS	N A	PASS	N A	N/A	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	.6	.2
6007	PASS	N A	FAIL	ADJ	FAIL	N A	FAIL	ADJ	N/A	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	.5	.5
6008	PASS	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	.6	0.0
6009	FAIL	RPL	FAIL	ADJ	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	.5	.1
6010	PASS	N A	FAIL	ADJ	PASS	N A	PASS	N A	N/A	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	.7	.1
6011	PASS	N A	FAIL	RPL	PASS	N A	PASS	N A	N/A	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	1.0	1.0
6012	PASS	N A	FAIL	ADJ	PASS	N A	PASS	N A	N/A	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	.7	.2
6013	PASS	N A	FAIL	ADJ	FAIL	ADJ	PASS	N A	N/A	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	.4	.4
6014	PASS	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	1.0	0.0
6015	PASS	N A	PASS	N A	FAIL	N A	PASS	N A	N/A	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	.5	0.0
6016	PASS	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	.5	0.0
6017	FAIL	ADJ	PASS	N A	PASS	N A	PASS	N A	N/A	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	.5	.1
6018	PASS	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	.5	0.0
6019	PASS	N A	FAIL	ADJ	PASS	N A	PASS	N A	N/A	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	.5	.1
6020	PASS	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	.5	0.0
6021	PASS	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	.5	0.0
6022	PASS	N A	FAIL	N A	PASS	N A	PASS	N A	N/A	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	.5	0.0
6023	PASS	N A	FAIL	ADJ	PASS	N A	PASS	N A	N/A	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	.5	.1
6024	PASS	N A	FAIL	ADJ	PASS	N A	PASS	N A	N/A	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	.5	.2
6025	PASS	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	.5	0.0
6026	PASS	N A	FAIL	N A	FAIL	ADJ	PASS	N A	N/A	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	1.0	0.0
6027	PASS	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	.5	0.0
6028	PASS	N A	FAIL	N A	FAIL	ADJ	PASS	N A	N/A	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	.7	.2
6029	PASS	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	.8	0.0
6030	PASS	N A	FAIL	N A	PASS	N A	PASS	N A	N/A	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	.5	0.0
6031	PASS	N A	FAIL	N A	FAIL	RPL	FAIL	RPR	N/A	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	.5	.5
6032	PASS	N A	FAIL	N A	PASS	N A	PASS	N A	N/A	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	.8	0.0
5033	PASS	N A	FAIL	N A	PASS	N A	PASS	N A	N/A	N A	PASS	N A	PASS	N A	FAIL	RPL	PASS	N A	.8	0.0

INSPECTION COLUMN: PASS, FAIL, N/A=NOT APPLICABLE
ACTION COLUMN: N A=NO ACTION, ADJ=ADJUSTMENT, RPR=REPAIR, REP=REPLACE

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APPENDIX C

MALADJUSTMENT AND DISABLEMENT
INSPECTION RESULTS

DETROIT

MANUFACTURER: FORD

VEH NO.	INDUCTION SYSTEM INSP	INDUCTION SYSTEM ACT	CARBURETOR + FUEL SYS INSP	CARBURETOR + FUEL SYS ACT	IGNITION SYSTEM INSP	IGNITION SYSTEM ACT	EGR SYSTEM INSP	EGR SYSTEM ACT	AIR PUMP SYSTEM INSP	AIR PUMP SYSTEM ACT	PCV SYSTEM INSP	PCV SYSTEM ACT	EXHAUST SYSTEM INSP	EXHAUST SYSTEM ACT	EVAP CONTR SYSTEM INSP	EVAP CONTR SYSTEM ACT	OTHER EMISS RELATED COMP INSP	OTHER EMISS RELATED COMP ACT	MAN HRS. FOR INSP	MAN HRS. FOR ACT.
6034	PASS	N A	PASS	N A	FAIL	ADJ	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	.7	.5
6035	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	.7	0.0
6036	PASS	N A	PASS	N A	FAIL	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	.7	0.0
6037	PASS	N A	PASS	N A	FAIL	ADJ	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	.7	.3
6038	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	.5	0.0
6039	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	.7	0.0
6040	PASS	N A	FAIL	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	1.0	0.0
6041	FAIL	RPL	PASS	N A	FAIL	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	1.0	.5
6042	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	1.0	0.0
6043	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	.5	0.0
6044	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	.5	0.0
6045	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	.7	0.0
6046	PASS	N A	FAIL	N A	FAIL	N A	FAIL	N A	FAIL	ADJ	PASS	N A	PASS	N A	PASS	N A	PASS	N A	1.0	.1
6047	PASS	N A	FAIL	ADJ	FAIL	ADJ	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	.7	.5
6048	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	1.0	0.0
6049	PASS	N A	FAIL	N A	FAIL	ADJ	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	1.0	.3
6050	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	1.0	0.0
6051	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	.5	0.0
6052	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	.7	0.0
6053	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	1.0	0.0
6054	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	1.0	0.0
6055	FAIL	ADJ	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	1.0	.1
6056	FAIL	ADJ	FAIL	N A	FAIL	ADJ	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	1.5	.3
6057	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	1.0	0.0
6058	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	1.0	0.0
6059	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	.5	0.0
6060	PASS	N A	PASS	N A	PASS	N A	FAIL	RPL	PASS	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	1.2	.2
6061	PASS	N A	FAIL	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	.7	0.0
6062	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	1.5	0.0
6063	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	.7	0.0
6064	PASS	N A	FAIL	ADJ	PASS	N A	PASS	N A	PASS	N A	FAIL	ADJ	PASS	N A	PASS	N A	N/A	N A	1.0	.2
6065	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	.7	0.0
6066	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	PASS	N A	N/A	N A	.7	0.0

INSPECTION COLUMN: PASS, FAIL, N/A=NOT APPLICABLE
ACTION COLUMN: N A=NO ACTION, ADJ=ADJUSTMENT, RPR=REPAIR, REP=REPLACE

APPENDIX C

MALADJUSTMENT AND DISABLEMENT
INSPECTION RESULTS

DETROIT

MANUFACTURER: GM

VEH NO.	INDUCTION SYSTEM INSP ACT	CARBURETOR + FUEL SYS INSP ACT	IGNITION SYSTEM INSP ACT	EGR SYSTEM INSP ACT	AIR PUMP SYSTEM INSP ACT	PCV SYSTEM INSP ACT	EXHAUST SYSTEM INSP ACT	EVAP CONTR SYSTEM INSP ACT	OTHER EMISS RELATED COMP INSP ACT	MAN HRS. FOR INSP	MAN HRS. FOR ACT.
6067	PASS N A	PASS N A	PASS N A	PASS N A	N/A N A	PASS N A	PASS N A	PASS N A	N/A N A	.5	0.0
6068	PASS N A	PASS N A	PASS N A	PASS N A	N/A N A	PASS N A	PASS N A	PASS N A	N/A N A	.8	0.0
6069	PASS N A	PASS N A	PASS N A	FAIL RPR	N/A N A	PASS N A	PASS N A	PASS N A	N/A N A	.7	.1
6070	PASS N A	PASS N A	PASS N A	PASS N A	N/A N A	PASS N A	PASS N A	PASS N A	N/A N A	.7	0.0
6071	PASS N A	PASS N A	FAIL ADJ	PASS N A	N/A N A	PASS N A	PASS N A	PASS N A	N/A N A	.7	.2
6072	PASS N A	PASS N A	PASS N A	PASS N A	N/A N A	PASS N A	PASS N A	PASS N A	N/A N A	.7	0.0
6073	PASS N A	PASS N A	PASS N A	PASS N A	N/A N A	PASS N A	PASS N A	PASS N A	N/A N A	.5	0.0
6074	PASS N A	PASS N A	PASS N A	PASS N A	N/A N A	PASS N A	PASS N A	PASS N A	N/A N A	.7	0.0
6075	PASS N A	PASS N A	PASS N A	PASS N A	N/A N A	PASS N A	PASS N A	PASS N A	N/A N A	.9	0.0
6076	PASS N A	FAIL ADJ	FAIL ADJ	PASS N A	N/A N A	PASS N A	PASS N A	PASS N A	N/A N A	.7	.3
6077	PASS N A	FAIL N A	FAIL ADJ	PASS N A	N/A N A	PASS N A	PASS N A	PASS N A	N/A N A	.5	.2
6078	PASS N A	PASS N A	PASS N A	PASS N A	N/A N A	PASS N A	PASS N A	PASS N A	N/A N A	.7	0.0
6079	PASS N A	FAIL ADJ	PASS N A	PASS N A	N/A N A	PASS N A	PASS N A	PASS N A	N/A N A	.5	.1
6080	PASS N A	FAIL ADJ	FAIL ADJ	PASS N A	N/A N A	PASS N A	PASS N A	PASS N A	N/A N A	.7	.2
6081	PASS N A	PASS N A	PASS N A	PASS N A	N/A N A	PASS N A	PASS N A	PASS N A	N/A N A	.5	0.0
6082	PASS N A	PASS N A	PASS N A	PASS N A	N/A N A	PASS N A	PASS N A	PASS N A	N/A N A	.5	0.0
6083	PASS N A	PASS N A	PASS N A	PASS N A	N/A N A	PASS N A	PASS N A	PASS N A	N/A N A	.7	0.0
6084	PASS N A	FAIL N A	FAIL ADJ	PASS N A	N/A N A	PASS N A	PASS N A	PASS N A	N/A N A	.7	.3
6085	PASS N A	FAIL N A	FAIL ADJ	FAIL ADJ	N/A N A	PASS N A	PASS N A	PASS N A	N/A N A	.5	.3
6086	PASS N A	PASS N A	PASS N A	PASS N A	N/A N A	PASS N A	PASS N A	PASS N A	N/A N A	1.0	0.0
6087	PASS N A	FAIL N A	FAIL ADJ	PASS N A	N/A N A	PASS N A	PASS N A	PASS N A	N/A N A	.8	.3
6088	PASS N A	PASS N A	FAIL ADJ	PASS N A	N/A N A	PASS N A	PASS N A	PASS N A	N/A N A	.5	.3
6089	PASS N A	FAIL N A	PASS N A	PASS N A	N/A N A	PASS N A	PASS N A	PASS N A	N/A N A	.5	0.0
6090	PASS N A	PASS N A	PASS N A	PASS N A	N/A N A	PASS N A	PASS N A	PASS N A	N/A N A	.5	0.0
6091	PASS N A	PASS N A	FAIL N A	PASS N A	N/A N A	PASS N A	PASS N A	PASS N A	N/A N A	.5	0.0
6092	PASS N A	FAIL ADJ	FAIL ADJ	PASS N A	N/A N A	PASS N A	PASS N A	PASS N A	N/A N A	.7	.2
6093	PASS N A	FAIL ADJ	FAIL ADJ	PASS N A	N/A N A	PASS N A	PASS N A	PASS N A	N/A N A	.5	.3
6094	PASS N A	FAIL N A	PASS N A	PASS N A	N/A N A	PASS N A	PASS N A	PASS N A	N/A N A	.7	0.0
6095	PASS N A	PASS N A	PASS N A	PASS N A	N/A N A	PASS N A	PASS N A	PASS N A	N/A N A	.7	0.0
6096	PASS N A	FAIL N A	PASS N A	PASS N A	N/A N A	PASS N A	PASS N A	PASS N A	N/A N A	.7	0.0
6097	PASS N A	PASS N A	PASS N A	FAIL ADJ	N/A N A	PASS N A	PASS N A	PASS N A	N/A N A	.5	.1
6098	PASS N A	PASS N A	PASS N A	PASS N A	N/A N A	PASS N A	PASS N A	PASS N A	N/A N A	.5	0.0
6099	PASS N A	FAIL ADJ	FAIL ADJ	PASS N A	N/A N A	PASS N A	PASS N A	PASS N A	N/A N A	.8	.3
6100	PASS N A	FAIL ADJ	PASS N A	PASS ADJ	N/A N A	PASS N A	PASS N A	PASS N A	N/A N A	.5	.5

INSPECTION COLUMN: PASS, FAIL, N/A=NOT APPLICABLE
ACTION COLUMN: N A=NO ACTION, ADJ=ADJUSTMENT, RPR=REPAIR, REP=REPLACE

Appendix D

EMISSION COMPONENT FUNCTION CHECK

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APPENDIX D

EMISSION COMPONENT FUNCTION CHECK

DETROIT

MANUFACTURER: CHRY

VEH NO.	1 IA	2 IA	3 IA	4 IA	5 IA	6 IA	7 IA	8 IA	9 IA	10 IA	11 IA	12 IA	13 IA	14 IA	15 IA	16 IA	17 IA	18 IA	19 IA	20 IA	21 IA	22 IA	23 IA	24 IA	MAN HRS INSP.	MAN HRS ACT.
6001	10	10	10	10	10	10	30	10	30	30	30	10	30	30	30	30	30	30	30	10	10	10	30	30	1.5	0.0
6002	10	10	10	10	10	10	30	10	30	30	30	10	30	10	30	30	30	30	30	10	10	10	30	30	1.0	0.0
6003	10	10	10	10	10	10	30	10	30	30	10	10	30	10	30	30	30	30	30	10	10	10	30	30	1.0	0.0
6004	10	10	10	10	10	10	30	10	30	30	30	10	30	10	30	30	30	30	30	10	10	10	30	30	1.0	0.0
6005	10	10	10	10	10	10	30	10	30	30	30	10	30	10	30	30	30	30	30	10	10	10	30	30	.6	0.0
6006	10	10	10	10	10	10	10	10	10	10	30	10	10	30	30	30	30	30	30	10	10	10	30	30	1.0	0.0
6007	10	10	10	10	10	10	10	10	10	10	30	10	10	30	30	30	30	30	30	10	10	10	30	30	.9	0.0
6008	10	10	10	10	10	10	10	10	10	10	30	10	10	30	30	30	30	30	30	10	10	10	30	30	1.0	0.0
6009	10	10	10	10	10	10	10	10	10	10	10	10	10	10	30	10	10	30	30	10	10	10	30	30	.9	0.0
6010	10	10	10	10	10	10	10	10	10	10	10	10	10	10	30	30	30	30	30	10	10	10	30	30	.9	0.0
6011	10	10	10	10	10	10	10	10	10	10	30	10	10	30	30	30	30	30	30	21	10	10	30	30	1.0	.2
6012	10	10	10	10	10	10	10	10	10	10	10	10	30	10	10	30	30	30	30	10	10	10	30	30	1.0	0.0
6013	10	10	10	10	10	10	10	10	10	10	20	10	10	10	10	30	30	30	30	10	10	10	30	30	.5	0.0
6014	10	10	10	10	10	10	30	10	30	30	10	10	30	10	30	30	30	30	30	10	10	10	30	30	.9	0.0
6015	10	10	10	10	10	10	30	10	30	30	30	10	30	10	30	30	30	30	30	10	10	10	30	30	1.1	0.0
6016	10	10	10	10	10	10	30	10	30	30	30	10	30	10	30	30	30	30	30	10	10	10	30	30	.7	0.0
6017	10	10	10	10	10	10	30	10	30	30	30	10	30	10	30	30	30	30	30	20	10	10	30	30	1.0	0.0
6018	10	10	10	10	10	10	30	10	30	30	30	10	30	10	30	30	30	30	30	10	10	10	30	30	1.0	0.0
6019	10	10	10	10	10	10	30	10	30	30	30	10	30	10	30	30	30	30	30	10	10	10	30	30	.7	0.0
6020	10	10	10	10	10	10	10	10	10	10	30	10	10	10	30	30	30	30	30	10	10	10	30	30	1.0	0.0
6021	10	10	10	10	20	10	10	10	10	10	30	10	10	30	30	30	30	30	30	10	10	10	30	30	1.2	0.0
6022	10	10	10	10	10	10	30	10	30	30	30	10	30	10	30	30	30	30	30	10	10	10	30	30	1.0	0.0
6023	10	10	10	10	10	10	10	10	10	10	30	10	10	30	30	30	30	30	30	10	10	10	30	30	1.0	0.0
6024	10	10	10	10	10	10	10	10	10	10	30	10	10	30	10	30	30	30	30	10	10	10	30	30	1.0	0.0
6025	10	10	10	10	10	10	10	10	10	10	10	10	30	10	30	30	30	30	30	10	10	10	30	30	1.0	0.0
6026	10	10	10	10	10	10	30	30	30	30	30	30	30	30	30	30	10	30	30	10	10	30	30	30	1.0	0.0
6027	10	10	10	10	10	10	30	10	30	30	30	10	30	10	30	30	30	30	30	10	10	10	30	30	1.0	0.0
6028	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	30	30	30	30	10	10	10	30	30	.7	0.0
6029	10	10	10	10	10	10	30	10	30	30	30	10	30	10	30	30	30	30	30	10	10	10	30	30	1.0	0.0
6030	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	30	30	30	30	10	10	10	30	30	1.0	0.0
6031	10	10	10	10	10	10	10	10	10	10	10	10	10	10	30	30	30	30	30	10	10	10	30	30	.8	0.0
6032	10	10	10	20	10	10	30	30	30	30	30	30	30	30	30	30	10	30	30	10	10	30	30	30	1.0	0.0
5033	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	30	10	30	30	10	10	10	30	30	2.0	0.0

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APPENDIX D

EMISSION COMPONENT FUNCTION CHECK

DETROIT

MANUFACTURER: FORD

VEH NO.	1 IA	2 IA	3 IA	4 IA	5 IA	6 IA	7 IA	8 IA	9 IA	10 IA	11 IA	12 IA	13 IA	14 IA	15 IA	16 IA	17 IA	18 IA	19 IA	20 IA	21 IA	22 IA	23 IA	24 IA	25 IA	26 IA	27 IA	28 IA	29 IA	30 IA	31 IA	32 IA	33 IA	34 IA	35 IA	36 IA	MAN HRS INSP.	MAN HRS ACT.
6034	20	10	10	30	30	30	30	10	10	10	30	10	10	30	30	30	30	30	30	30	30	30	30	30	10	30	10	30	10	10	30	30	30	10	30	30	1.0	0.0
6035	30	10	10	10	30	30	10	10	10	10	10	30	30	30	30	30	30	30	30	30	10	30	30	30	10	30	10	10	20	10	10	10	30	10	30	30	1.0	0.0
6036	30	10	10	30	30	30	30	10	10	10	30	30	10	10	30	30	30	30	30	30	30	30	30	30	10	10	10	30	10	10	30	30	30	10	30	30	1.0	0.0
6037	30	10	10	30	30	30	30	10	10	10	30	30	10	10	30	30	30	30	30	30	30	30	30	30	10	10	10	30	10	10	30	30	30	10	30	30	1.0	0.0
6038	30	10	10	10	30	30	30	10	10	10	10	30	30	30	30	30	30	30	30	30	30	30	30	30	10	30	10	10	10	10	10	10	30	10	30	30	.8	0.0
6039	30	10	10	10	30	30	10	10	10	10	10	30	30	30	30	30	30	30	30	30	30	30	30	30	10	30	00	30	10	10	10	30	30	10	30	30	1.0	0.0
6040	30	10	10	10	30	30	10	10	10	10	10	30	30	30	30	30	30	30	30	30	30	30	30	30	10	30	10	30	10	10	10	30	30	10	30	30	2.0	0.0
6041	30	10	10	10	30	30	10	10	10	10	10	30	30	30	30	30	30	30	30	30	30	30	30	30	10	30	10	30	10	10	22	30	30	10	30	30	1.0	.5
6042	30	10	10	10	30	30	10	10	10	10	10	30	30	30	30	30	30	30	30	30	30	30	30	30	10	30	10	30	10	10	10	30	30	10	30	30	1.0	0.0
6043	30	10	10	10	30	30	10	10	10	10	10	30	30	30	30	30	30	30	30	30	30	30	30	30	10	30	10	30	10	10	10	30	30	10	30	30	.7	0.0
6044	30	10	10	10	30	30	30	10	10	10	10	30	30	30	30	30	30	30	30	30	30	30	30	30	10	30	10	10	10	10	10	10	30	10	10	30	1.0	0.0
6045	30	10	10	10	30	30	30	10	10	10	10	30	30	30	30	30	30	30	30	30	30	30	30	30	10	30	10	10	10	10	10	10	30	10	10	30	1.0	0.0
6046	30	10	10	30	30	30	30	10	10	10	10	30	30	30	30	30	30	30	30	30	30	30	30	30	10	30	10	10	10	10	10	30	30	10	23	30	1.0	.4
6047	30	10	10	10	30	30	30	10	10	10	10	30	30	30	30	30	30	30	30	30	30	30	30	30	21	30	21	10	10	10	10	30	30	10	11	30	1.0	.5
6048	30	10	10	10	30	30	30	10	10	10	10	30	30	30	30	30	30	30	30	30	30	10	30	30	10	30	10	10	10	10	10	30	30	10	10	30	1.5	0.0
6049	30	10	10	10	30	30	30	10	10	10	10	30	30	30	30	30	30	30	30	30	30	30	30	30	10	30	10	10	10	10	10	30	30	10	10	30	1.2	0.0
6050	30	10	10	10	30	30	30	10	10	10	10	30	30	30	30	30	30	30	30	30	30	10	30	30	10	30	10	10	10	10	10	30	30	10	10	30	1.5	0.0
6051	30	10	10	10	30	30	30	10	10	10	10	30	30	30	30	30	30	30	30	30	30	30	30	30	10	30	10	10	10	10	10	30	30	10	11	30	1.0	0.0
6052	30	10	10	10	30	30	30	10	10	10	10	30	30	30	30	30	30	30	30	30	30	30	30	30	10	30	10	10	10	10	10	30	30	10	10	30	1.3	0.0
6053	30	10	10	30	30	30	30	10	10	10	10	30	30	30	30	30	30	30	30	30	30	30	30	30	10	30	10	10	10	10	10	30	30	10	21	30	1.3	.7
6054	30	10	10	30	30	30	30	10	10	10	10	30	30	30	30	30	30	30	30	30	30	30	30	30	10	30	10	10	10	10	10	30	30	10	10	30	1.0	0.0
6055	30	10	10	30	10	30	30	10	10	10	10	30	30	30	30	30	30	30	30	30	30	30	30	30	10	30	10	20	10	10	30	30	30	10	20	10	1.3	0.0
6056	30	10	10	30	30	30	30	10	10	10	10	30	30	30	30	30	30	30	30	30	30	30	30	30	10	30	10	10	10	10	10	30	30	30	10	10	1.5	0.0
6057	30	10	10	10	30	30	30	10	10	10	10	10	30	30	30	30	30	30	30	30	10	30	30	30	10	30	10	10	10	10	10	10	30	10	10	30	1.0	0.0
6058	30	10	10	10	30	30	10	10	10	10	10	30	30	30	30	30	30	30	30	30	30	30	30	30	10	30	10	30	10	10	10	30	30	10	30	30	1.2	0.0
6059	30	10	10	10	30	30	30	10	10	10	10	30	30	30	30	30	30	30	30	30	30	30	30	30	10	30	10	10	10	10	10	10	30	10	20	30	1.0	0.0
6060	30	10	10	10	30	30	30	10	10	10	10	30	30	30	30	30	30	30	30	30	30	30	30	30	10	30	10	10	10	10	10	30	30	10	10	30	1.0	0.0
6061	30	10	10	10	30	30	30	10	10	10	10	30	30	30	30	30	30	30	30	30	30	30	30	30	10	30	10	10	10	10	10	30	30	10	10	30	1.3	0.0
6062	30	10	10	10	30	30	30	10	10	10	10	30	30	30	30	30	30	30	30	30	30	30	30	30	10	30	10	10	10	10	10	30	30	10	10	30	1.5	0.0
6063	30	10	10	10	30	30	30	10	10	10	10	30	30	30	30	30	30	30	30	30	30	30	30	30	10	30	10	10	10	10	10	30	30	10	20	30	1.3	0.0
6064	30	10	10	30	10	30	30	10	10	10	10	30	30	30	30	30	30	30	30	30	30	30	30	30	10	30	10	10	10	10	10	30	30	10	10	30	1.5	0.0
6065	30	10	10	30	30	30	30	10	10	10	10	10	30	30	30	30	30	30	30	30	30	30	30	30	10	30	10	10	10	10	30	30	30	10	10	30	1.3	0.0
6066	30	10	10	10	30	30	30	10	10	10	10	30	30	30	30	30	30	30	30	30	30	30	30	30	10	30	10	10	10	10	30	30	30	10	10	30	1.5	0.0

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APPENDIX D

EMISSION COMPONENT FUNCTION CHECK

DETROIT

MANUFACTURER: GM

VEH NO.	1 IA	2 IA	3 IA	4 IA	5 IA	6 IA	7 IA	8 IA	9 IA	10 IA	11 IA	12 IA	13 IA	14 IA	15 IA	16 IA	17 IA	18 IA	19 IA	20 IA	21 IA	22 IA	23 IA	24 IA	MAN INSP.	HRS ACT.
6067	10	20	10	10	30	10	30	30	30	10	30	30	10	10	30	30	30	30	30	10	10	30	10	30	1.2	0.0
6068	10	10	10	10	30	10	30	30	30	10	30	30	10	10	30	30	30	30	30	10	30	30	10	30	.8	0.0
6069	10	10	10	10	30	10	30	30	30	10	30	30	10	10	30	30	10	30	30	10	10	30	10	30	1.3	0.0
6070	10	10	10	10	30	10	30	30	30	10	30	30	10	10	30	30	10	30	30	10	10	30	10	30	1.5	0.0
6071	10	10	10	10	30	10	30	30	30	10	30	30	10	10	30	30	10	30	30	10	10	30	10	30	1.0	0.0
6072	10	10	10	10	30	10	10	30	30	30	30	10	30	10	30	30	30	30	30	10	10	10	10	30	1.0	0.0
6073	10	10	10	10	30	10	30	10	30	30	30	10	30	10	30	30	30	30	30	10	10	30	10	30	1.3	0.0
6074	10	10	30	30	30	10	30	30	30	30	30	30	10	10	30	30	30	30	30	10	10	10	10	30	.7	0.0
6075	10	10	30	30	30	10	10	30	30	30	30	10	30	10	30	30	30	30	10	10	30	10	10	30	1.0	0.0
6076	10	10	30	30	30	10	30	30	30	30	30	30	10	10	30	30	30	30	10	10	30	30	10	30	.7	0.0
6077	10	10	10	10	30	10	30	30	30	30	30	10	30	10	30	30	30	30	10	10	10	30	10	30	1.2	0.0
6078	10	10	10	10	30	10	10	30	30	30	30	10	30	10	30	30	30	30	30	10	30	30	10	30	.7	0.0
6079	10	10	10	10	30	10	10	30	30	30	30	10	30	10	30	30	30	30	30	10	30	30	10	30	1.2	0.0
6080	10	10	30	30	30	10	10	30	30	30	30	10	30	10	30	30	30	30	30	10	30	30	10	30	.7	0.0
6081	10	10	10	10	30	10	10	30	30	30	30	10	30	10	30	30	30	30	30	10	30	30	10	30	1.2	0.0
6082	10	10	10	10	30	10	10	30	30	30	30	10	30	10	30	30	30	30	30	10	30	30	10	30	.7	0.0
6083	10	10	10	10	30	10	10	30	30	30	30	10	30	10	30	30	30	30	30	10	30	30	10	30	1.2	0.0
6084	10	10	10	10	30	10	10	30	30	30	30	10	30	10	30	30	30	30	30	10	30	30	10	30	1.0	0.0
6085	10	10	30	30	30	10	10	30	30	30	30	10	30	10	30	30	30	30	30	10	30	30	10	30	1.2	0.0
6086	10	10	10	10	30	10	10	30	30	30	30	10	30	10	30	30	30	30	30	10	30	30	10	30	1.1	0.0
6087	10	10	10	10	30	10	10	30	30	30	30	10	30	10	30	30	30	30	30	10	30	30	10	30	1.2	0.0
6088	10	10	30	30	30	10	10	30	30	30	30	10	30	10	30	30	30	30	30	10	30	30	10	30	.9	0.0
6089	10	10	30	30	30	10	10	30	30	30	30	10	30	10	30	30	30	30	30	10	30	30	10	30	1.3	0.0
6090	10	10	30	30	30	10	10	30	10	30	30	30	30	10	30	30	30	30	30	10	30	30	10	30	1.2	0.0
6091	10	10	30	30	30	10	10	30	30	30	30	10	30	10	30	30	30	20	30	10	30	30	10	30	1.3	0.0
6092	10	10	30	30	30	10	10	30	30	30	30	10	30	10	30	30	30	30	30	10	10	30	10	30	1.2	0.0
6093	10	10	30	30	30	10	10	30	30	10	30	10	30	10	10	30	10	30	30	10	10	30	10	30	1.0	0.0
6094	10	10	30	30	30	10	10	30	30	30	30	10	30	10	10	30	10	30	30	10	10	30	10	30	1.2	0.0
6095	10	10	30	30	30	10	10	30	30	30	30	10	30	10	10	30	10	30	30	10	10	30	10	10	.7	0.0
6096	10	10	30	30	30	10	30	30	30	30	30	10	30	10	10	30	10	30	30	10	10	30	10	10	1.0	0.0
6097	10	10	30	30	30	10	10	30	20	30	30	30	10	10	30	30	30	30	10	10	30	30	10	10	.7	0.0
6098	10	10	10	10	10	10	30	30	30	30	30	10	30	10	10	10	30	30	30	10	30	30	10	30	1.2	0.0
6099	10	10	10	10	10	10	30	30	30	30	30	10	30	10	10	10	30	30	30	10	10	30	10	10	1.5	0.0
6100	10	10	10	10	10	10	30	10	30	30	30	10	30	10	10	10	30	30	30	20	10	30	10	10	1.4	0.0

I=INSPECTION COLUMN: 1=PASS, 2=FAIL, 3=NOT APPLICABLE
A=ACTION COLUMN: 0=NO ACTION, 1=ADJUST, 2=REPAIR, 3=REPLACE

Appendix E

IDLE CO AND RPM INSPECTION

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APPENDIX E

IDLE CO AND RPM INSPECTION

DETROIT

MANUFACTURER: CHRY

VEH NO.	IDLE QUAL BEFORE ADJ	IDLE RPM MEAS.	IDLE RPM SPEC.	IDLE RPM ADJUSTED	IDLE CO SPEC.	IDLE CO MEAS.	ADJUSTED CURB IDLE	ADJUSTED IDLE CO	NUMBER OF 1/8 TURNS	WAS ADJUST. WITHIN RNGE	FINAL IDLE QUALITY
6001	POOR	825	750		.30	1.90	750	.30	04	NO	NO DIFF
6002	XLNT	950	750	770	.30	4.50	770	.30	12	NO CAPS	MUCHWRSE
6003	FAIR	750	750		.30	.95	750	.30	01	YES	NO DIFF
6004	FAIR	900	750	750	.30	.90	750	.40	01	YES	NO DIFF
6005	FAIR	725	750		.30	2.50	750	.20	25	NO CAPS	NO DIFF
6006	FAIR	675	750	750	.30	5.00	750	.45	09	NO CAPS	NO DIFF
6007	FAIR	900	750	750	.30	5.00	775	.50	02	NO	SLTYWRSE
6008	FAIR	675	750	750	.30	.45	750	.30	02	YES	SLTYWRSE
6010	FAIR	625	700	700	.30	4.80	725	.33	01	NO CAPS	NO DIFF
6011	XLNT	950	750	750	.30	5.00	775	.25	12	NO CAPS	MUCHWRSE
6012	FAIR	775	700	700	.30	1.40	700	.30	02	NO CAPS	SLTYBETR
6013	XLNT	680	700		.30	4.80	700	.30	05	NO CAPS	SLTYWRSE
6014	FAIR	700	750		.30	1.80				YES	NO DIFF
6015	FAIR	1000	750	750	.30	.35	750	.65	01	YES	NO DIFF
6016	FAIR	550	750		.15	.30				YES	NO DIFF
6017	FAIR	775	750		.30	.20				YES	NO DIFF
6018	XLNT	825	750	750	.30	4.95	750	.30	05	NO	SLTYWRSE
6019	FAIR	750	750		.30	.35				YES	NO DIFF
6020	FAIR	800	750		.30	.80				YES	NO DIFF
6021	FAIR	950	750	750	.30	3.50	775	.35	05	NO	MUCHWRSE
6022	FAIR	800	750	750	.30	5.00	750	.30	07	NO CAPS	SLTYBETR
6024	FAIR	775	750		.30	.29				YES	NO DIFF
6025	FAIR	730	700		.30	5.00	700	.35	06	NO CAPS	SLTYWRSE
6026	XLNT	720	720		.30	2.60	720	.21	05	NO CAPS	NO DIFF
6027	FAIR	920	750	750	.30	1.50	750	.30	01	YES	NO DIFF
6028	POOR	560	700	700	.30	4.70	700	.30	03	NO CAPS	MUCHBETR
6029	FAIR	760	750		.30	.10				YES	SLTYBETR
6030	FAIR	800	700	700	.30	2.40	700	.30	03	YES	NO DIFF
6031	FAIR	1150	700		.30	.75				YES	NO DIFF
6032	XLNT	800	720		.30	.65				YES	NO DIFF
5033	XLNT	725	750		.30	1.45	750	.23	02	NO CAPS	SLTYWRSE

IDLE QUALITY BEFORE ADJUSTMENT: POOR=STEADY MISFIRE, FAIR=INTERMITTENT ROUGHNESS, XLNT=SMOOTH, EVEN IDLE
FINAL IDLE QUALITY: MUCHWRSE=MUCH WORSE, SLTYWRSE=SLIGHTLY WORSE, NO DIFF=NO NOTICEABLE DIFFERENCE, SLTYBETR=SLIGHTLY BETTER, MUCHBETR=MUCH BETTER

APPENDIX E

IDLE CO AND RPM INSPECTION

DETROIT

MANUFACTURER: FORD

VEH NO.	IDLE QUAL. BEFORE ADJ.	IDLE RPM MEAS.	IDLE RPM SPEC.	IDLE RPM ADJ. TO	IDLE RPM - PROPANE ALLOWED RNGE FROM	IDLE RPM - PROPANE ALLOWED RNGE TO	IDLE RPM - PROPANE MEAS.	IDLE RPM - PROPANE FINAL	IDLE RPM - ADJUSTED RESET RNGE FROM	IDLE RPM - ADJUSTED RESET RNGE TO	IDLE RPM - ADJUSTED FINAL INCR.	NUMBER OF 1/4 TURNS	WAS ADJUST. WITHIN RNGE	FINAL IDLE QUALITY
6046	FAIR	575	650	650	30	100	0	660	40	80	55	03	NO CAPS	NO BETR
6047	FAIR	560	650	650	30	90	0	650	20	50	30	06	NO CAPS	NO BETR
6048	FAIR	675	650		30	90	20	650	20	50	40	01	YES	SLTYBETR
6049	FAIR	630	650	650	30	90	0	650	20	50	40	08	NO CAPS	NO DIFF
6055	XLNT	680	650	650	30	60	0	650	20	40	30	04	NO	SLTYWRSE
6061	FAIR	570	650	650	30	90	0	650	20	50	45	09	NO CAPS	SLTYWRSE
6062	FAIR	640	650	650	30	90	40	630				01	YES	SLTYWRSE

IDLE QUALITY BEFORE ADJUSTMENT: POOR=STEADY MISFIRE, FAIR=INTERMITTENT ROUGHNESS, XLNT=SMOOTH, EVEN IDLE
FINAL IDLE QUALITY: MUCHWRSE=MUCH WORSE, SLTYWRSE=SLIGHTLY WORSE, NO DIFF=NO NOTICEABLE DIFFERENCE, SLTYBETR=SLIGHTLY BETTER, MUCHBETR=MUCH BETTER

APPENDIX E

IDLE CO AND RPM INSPECTION

DETROIT

MANUFACTURER: GM

VEH NO.	IDLE QUAL BEFORE ADJ	IDLE RPM MEAS.	NO. 1/4 TURNS TO SEAT RIGHT	NO. 1/4 TURNS SCREW LEFT	SPEC. IDLE RPM BEFORE LEAN DROP	SPEC. IDLE RPM FINAL	NO. 1/4 TURNS FOR THIS DROP	AVG NO. 1/4 TURNS TO FINAL IDLE RPM RIGHT	AVG NO. 1/4 TURNS TO FINAL IDLE RPM LEFT	FINAL IDLE QUALITY
6067	FAIR	590	09	09	630	550	06	08	08	SLTYWRSE
6076	FAIR	600	00	12	825	750	06	00	06	SLTYWRSE
6077	FAIR	610		15	575	550	04		07	SLTYBETR
6079	XLNT	480	18	12	650	600	12	06	06	SLTYWRSE
6082	FAIR	610	08	10	630	600	03	09	09	NO DIFF
6084	FAIR	680	15	14	650	600	04	11	11	SLTYBETR
6085	XLNT	590	13	12	650	600	06	06	06	SLTYWRSE
6087	XLNT	660	14	14	650	600	04	10	10	SLTYWRSE
6089	FAIR	610	12	13	650	600	04	09	09	NO DIFF
6096	FAIR	710	00	12	830	750	05	00	07	SLTYBETR
6098	FAIR	645	11	11	640	550	05	11	11	NO DIFF
6099	FAIR	615	11	11	640	550	10	10	10	NO DIFF
6100	XLNT	680	11	16	640	575	06	06	06	SLTYWRSE

IDLE QUALITY BEFORE ADJUSTMENT: POOR=STEADY MISFIRE, FAIR=INTERMITTENT ROUGHNESS, XLNT=SMOOTH, EVEN IDLE
FINAL IDLE QUALITY: MUCHWRSE=MUCH WORSE, SLTYWRSE=SLIGHTLY WORSE, NO DIFF=NO NOTICEABLE DIFFERENCE, SLTYBETR=SLIGHTLY BETTER, MUCHBETR=MUCH BETTER

Appendix F

ONE YEAR/15,000 MILE REQUIRED MAINTENANCE

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APPENDIX F

ONE YEAR/15,000 MILE REQUIRED MAINTENANCE

DETROIT

MANUFACTURER: CHRY

VEH	1 A	2 IA	3 IA	4 IA	5 IA	6 IA	7 IA	8 IA	9 A	10 IA	11 IA	12 A	13 IA	MAN HRS REQUIRED	PARTS COST
6006	3	13	10	10	10	10	30	10	3	10	10	1	30	1.0	9.26
6011	3	10	10	10	10	30	30	10	3	11	11	1	30	.6	9.26
6012	3	10	10	10	10	30	30	10	3	10	10	0	10	.5	9.26
6015	3	10	10	10	10	30	30	10	3	10	10	1	30	.7	9.26
6021	3	23	10	10	10	30	30	10	3	10	10	1	30	1.0	18.64
6022	3	10	10	10	10	10	10	10	3	10	10	0	30	.7	9.26
6027	3	10	10	10	10	10	10	10	3	11	11	1	11	.8	9.26
6030	3	10	10	10	23	30	30	10	3	10	10	1	30	.5	13.76
5033	3	23	10	10	10	30	30	10	3	10	10	1	30	1.0	9.26

I=INSPECTION COLUMN: 1=PASS, 2=FAIL, 3=NOT APPLICABLE
A=ACTION COLUMN: 0=NO ACTION, 1=ADJUST, 2=REPAIR, 3=REPLACE

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APPENDIX F

ONE YEAR/15,000 MILE REQUIRED MAINTENANCE

DETROIT

MANUFACTURER: FORD

VEH	1 A	2 A	3 A	4 IA	5 IA	6 IA	7 IA	8 IA	9 I	10 IA	11 IA	12 IA	13 IA	14 IA	15 IA	16 IA	17 IA	18 IA	19 IA	20 IA	21 IA	22 IA	23 IA	24 IA	25 IA	26 IA	MAN HRS REQUIRED	PARTS COST
6046	3	3	0	30	10	10	10	30	1	30	10	10	10	10	10	11	10	10	30	30	30	10	23	10	30	30	1.0	23.54
6047	3	3	0	30	23	10	10	30	3	30	10	10	30	10	10	10	10	30	30	30	30	10	23	10	30	30	1.3	15.40
6048	3	3	0	30	10	10	10	30	3	30	10	21	30	10	10	21	10	10	30	30	30	10	23	10	30	30	1.2	11.40
6049	3	3	0	30	10	10	10	30	3	30	10	10	30	10	10	10	10	10	30	30	30	10	23	10	30	30	1.0	11.40
6059	3	3	3	30	10	10	10	30	3	30	10	10	30	10	10	11	10	30	30	30	30	10	10	10	10	23	1.0	19.19
6061	3	3	0	30	10	10	10	30	1	30	10	10	30	10	10	10	10	30	30	30	30	10	10	10	30	30	1.3	7.05
6062	3	3	0	30	10	10	10	30	3	30	10	10	30	10	10	21	10	10	30	30	30	10	23	10	30	30	1.0	11.40

I=INSPECTION COLUMN: 1=PASS, 2=FAIL, 3=NOT APPLICABLE
A=ACTION COLUMN: 0=NO ACTION, 1=ADJUST, 2=REPAIR, 3=REPLACE

APPENDIX F

ONE YEAR/15,000 MILE REQUIRED MAINTENANCE

DETROIT

MANUFACTURER: GM

VEH	1 A	2 A	3 IA	4 IA	5 IA	6 IA	7 IA	8 IA	9 IA	10 IA	11 A	12 IA	13 A	14 IA	15 IA	16 IA	17 IA	18 IA	19 IA	MAN HRS REQUIRED	PARTS COST
6084	3	3	10	10	10	10	13	10	21	10	1	10	3	23	10	30	30	13	30	1.5	36.68
6099	3	3	13	10	10	10	13	10	11	10	1	10	3	13	10	30	30	13	20	1.5	39.00

I=INSPECTION COLUMN: 1=PASS, 2=FAIL, 3=NOT APPLICABLE
A=ACTION COLUMN: 0=NO ACTION, 1=ADJUST, 2=REPAIR, 3=REPLACE

Appendix G

LISTING OF RESTORATIVE MAINTENANCE COSTS FOR INDIVIDUAL VEHICLES

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APPENDIX G

LISTING OF RESTORATIVE MAINTENANCE COSTS
FOR INDIVIDUAL VEHICLES

DETROIT

MANUFACTURER: CHRY

VEH NO.	MODEL YEAR	MALADJUSTMENT AND DISABLEMENT			EMISSION COMPONENT FUNCTION CHECK			IDLE SET		MAJOR TUNE-UP		TOTAL LABOR	TOTAL PARTS	TOTAL COST
		INSP. LABOR	CORR. LABOR	PARTS COST	INSP. LABOR	CORR. LABOR	PARTS COST	INSP. LABOR	CORR. LABOR	INSP. LABOR	PARTS COST			
6001	1976	7.50	0.00	0.00	22.50	0.00	0.00	4.50	3.00	0.00	0.00	37.50	0.00	37.50
6002	1976	12.00	1.50	0.00	15.00	0.00	0.00	4.50	3.00	0.00	0.00	36.00	0.00	36.00
6003	1976	15.00	0.00	0.00	15.00	0.00	0.00	4.50	3.00	0.00	0.00	37.50	0.00	37.50
6004	1976	7.50	0.00	0.00	15.00	0.00	0.00	4.50	3.00	0.00	0.00	30.00	0.00	30.00
6005	1976	15.00	3.00	0.00	9.00	0.00	0.00	4.50	3.00	0.00	0.00	34.50	0.00	34.50
6006	1976	9.00	3.00	0.00	15.00	0.00	0.00	4.50	3.00	15.00	9.26	49.50	9.26	58.76
6007	1976	7.50	7.50	0.00	13.50	0.00	0.00	4.50	3.00	0.00	0.00	36.00	0.00	36.00
6008	1976	9.00	0.00	0.00	15.00	0.00	0.00	4.50	3.00	0.00	0.00	31.50	0.00	31.50
6009	1976	7.50	1.50	4.00	13.50	0.00	0.00	0.00	0.00	0.00	0.00	22.50	4.00	26.50
6010	1976	10.50	1.50	0.00	13.50	0.00	0.00	4.50	3.00	0.00	0.00	33.00	0.00	33.00
6011	1976	15.00	15.00	0.00	15.00	3.00	0.00	4.50	3.00	9.00	9.26	64.50	9.26	73.76
6012	1976	10.50	3.00	0.00	15.00	0.00	0.00	4.50	3.00	7.50	9.26	43.50	9.26	52.76
6013	1976	6.00	6.00	0.00	7.50	0.00	0.00	4.50	3.00	0.00	0.00	27.00	0.00	27.00
6014	1976	15.00	0.00	0.00	13.50	0.00	0.00	4.50	0.00	0.00	0.00	33.00	0.00	33.00
6015	1976	7.50	0.00	0.00	16.50	0.00	0.00	4.50	3.00	10.50	9.26	42.00	9.26	51.26
6016	1976	7.50	0.00	0.00	10.50	0.00	0.00	4.50	0.00	0.00	0.00	22.50	0.00	22.50
6017	1976	7.50	1.50	0.00	15.00	0.00	0.00	4.50	0.00	0.00	0.00	28.50	0.00	28.50
6018	1976	7.50	0.00	0.00	15.00	0.00	0.00	4.50	3.00	0.00	0.00	30.00	0.00	30.00
6019	1976	7.50	1.50	0.00	10.50	0.00	0.00	4.50	0.00	0.00	0.00	24.00	0.00	24.00
6020	1976	7.50	0.00	0.00	15.00	0.00	0.00	4.50	0.00	0.00	0.00	27.00	0.00	27.00
6021	1976	7.50	0.00	0.00	18.00	0.00	0.00	4.50	3.00	15.00	18.64	48.00	18.64	66.64
6022	1976	7.50	0.00	0.00	15.00	0.00	0.00	4.50	3.00	10.50	9.26	40.50	9.26	49.76
6023	1976	7.50	1.50	0.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	24.00	0.00	24.00
6024	1976	7.50	3.00	0.00	15.00	0.00	0.00	4.50	0.00	0.00	0.00	30.00	0.00	30.00
6025	1976	7.50	0.00	0.00	15.00	0.00	0.00	4.50	3.00	0.00	0.00	30.00	0.00	30.00
6026	1976	15.00	0.00	0.00	15.00	0.00	6.57	4.50	3.00	0.00	0.00	37.50	6.57	44.07
6027	1976	7.50	0.00	0.00	15.00	0.00	0.00	4.50	3.00	12.00	9.26	42.00	9.26	51.26
6028	1976	10.50	3.00	0.00	10.50	0.00	0.00	4.50	3.00	0.00	0.00	31.50	0.00	31.50
6029	1976	12.00	0.00	0.00	15.00	0.00	0.00	4.50	0.00	0.00	0.00	31.50	0.00	31.50
6030	1976	7.50	0.00	0.00	15.00	0.00	0.00	4.50	3.00	7.50	13.76	37.50	13.76	51.26
6031	1976	7.50	7.50	13.79	12.00	0.00	0.00	4.50	0.00	0.00	0.00	31.50	13.79	45.29
6032	1976	12.00	0.00	0.00	15.00	0.00	0.00	4.50	0.00	0.00	0.00	31.50	0.00	31.50
5033	1975	12.00	0.00	0.00	30.00	0.00	.50	4.50	3.00	15.00	9.26	64.50	9.76	74.26
CHRY TOTALS		313.50	60.00	17.79	486.00	3.00	7.07	139.50	66.00	102.00	97.22	1170.00	122.08	1292.08

NOTE: LABOR COST BASED ON $15.00 PER HOUR
PARTS BASED ON RETAIL PARTS COST

APPENDIX G

LISTING OF RESTORATIVE MAINTENANCE COSTS
FOR INDIVIDUAL VEHICLES

DETROIT

MANUFACTURER: FORD

VEH NO.	MODEL YEAR	MALADJUSTMENT AND DISABLEMENT			EMISSION COMPONENT FUNCTION CHECK			IDLE SET		MAJOR TUNE-UP		TOTAL LABOR	TOTAL PARTS	TOTAL COST
		INSP. LABOR	CORR. LABOR	PARTS COST	INSP. LABOR	CORR. LABOR	PARTS COST	INSP. LABOR	CORR. LABOR	INSP. LABOR	PARTS COST			
6034	1976	10.50	7.50	0.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	33.00	0.00	33.00
6035	1976	10.50	0.00	0.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	25.50	0.00	25.50
6036	1976	10.50	0.00	0.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	25.50	0.00	25.50
6037	1976	10.50	4.50	0.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	30.00	0.00	30.00
6038	1976	7.50	0.00	0.00	12.00	0.00	0.00	0.00	0.00	0.00	0.00	19.50	0.00	19.50
6039	1976	10.50	0.00	0.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	25.50	0.00	25.50
6040	1976	15.00	0.00	0.00	30.00	0.00	0.00	0.00	0.00	0.00	0.00	45.00	0.00	45.00
6041	1976	15.00	7.50	0.00	15.00	7.50	0.00	0.00	0.00	0.00	0.00	45.00	0.00	45.00
6042	1976	15.00	0.00	0.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	30.00	0.00	30.00
6043	1976	7.50	0.00	0.00	10.50	0.00	0.00	0.00	0.00	0.00	0.00	18.00	0.00	18.00
6044	1976	7.50	0.00	0.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	22.50	0.00	22.50
6045	1976	10.50	0.00	0.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	25.50	0.00	25.50
6046	1976	15.00	1.50	0.00	15.00	6.00	0.00	7.50	7.50	15.00	23.54	67.50	23.54	91.04
6047	1976	10.50	7.50	0.00	15.00	7.50	0.00	7.50	7.50	19.50	15.40	75.00	15.40	90.40
6048	1976	15.00	0.00	0.00	22.50	0.00	0.00	7.50	3.00	18.00	11.40	66.00	11.40	77.40
6049	1976	15.00	4.50	0.00	18.00	0.00	0.00	7.50	7.50	15.00	11.40	67.50	11.40	78.90
6050	1976	15.00	0.00	0.00	22.50	0.00	0.00	0.00	0.00	0.00	0.00	37.50	0.00	37.50
6051	1976	7.50	0.00	0.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	22.50	0.00	22.50
6052	1976	10.50	0.00	0.00	19.50	0.00	0.00	0.00	0.00	0.00	0.00	30.00	0.00	30.00
6053	1976	15.00	0.00	12.14	19.50	10.50	0.00	0.00	0.00	0.00	0.00	45.00	12.14	57.14
6054	1976	15.00	0.00	0.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	30.00	0.00	30.00
6055	1976	15.00	1.50	0.00	19.50	0.00	0.00	7.50	10.50	0.00	0.00	54.00	0.00	54.00
6056	1976	22.50	4.50	0.00	22.50	0.00	0.00	0.00	0.00	0.00	0.00	49.50	0.00	49.50
6057	1976	15.00	0.00	0.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	30.00	0.00	30.00
6058	1976	15.00	0.00	0.00	18.00	0.00	0.00	0.00	0.00	0.00	0.00	33.00	0.00	33.00
6059	1976	7.50	0.00	0.00	15.00	0.00	0.00	0.00	0.00	15.00	19.19	37.50	19.19	56.69
6060	1976	18.00	3.00	.50	15.00	0.00	0.00	0.00	0.00	0.00	0.00	36.00	.50	36.50
6061	1976	10.50	0.00	0.00	19.50	0.00	2.50	7.50	7.50	19.50	7.05	64.50	9.55	74.05
6062	1976	22.50	0.00	0.00	22.50	0.00	0.00	7.50	0.00	15.00	11.40	67.50	11.40	78.90
6063	1976	10.50	0.00	0.00	19.50	0.00	0.00	0.00	0.00	0.00	0.00	30.00	0.00	30.00
6064	1976	15.00	3.00	0.00	22.50	0.00	0.00	0.00	0.00	0.00	0.00	40.50	0.00	40.50
6065	1976	10.50	0.00	0.00	19.50	0.00	0.00	0.00	0.00	0.00	0.00	30.00	0.00	30.00
6066	1976	10.50	0.00	0.00	22.50	0.00	0.00	0.00	0.00	0.00	0.00	33.00	0.00	33.00
FORD TOTALS		421.50	45.00	12.64	580.50	31.50	2.50	52.50	43.50	117.00	99.38	1291.50	114.52	1406.02

NOTE: LABOR COST BASED ON $15.00 PER HOUR
PARTS BASED ON RETAIL PARTS COST

APPENDIX G

LISTING OF RESTORATIVE MAINTENANCE COSTS
FOR INDIVIDUAL VEHICLES

DETROIT

[illegible]

VEH NO.	MODEL YEAR	PRE-ADJUSTMENT AND DISABLEMENT INSP. LABOR	PRE-ADJUSTMENT AND DISABLEMENT CORR. LABOR	PRE-ADJUSTMENT AND DISABLEMENT PARTS COST	EMISSION COMPONENT FUNCTION CHECK INSP. LABOR	EMISSION COMPONENT FUNCTION CHECK CORR. LABOR	EMISSION COMPONENT FUNCTION CHECK PARTS COST	IDLE SET INSP. LABOR	IDLE SET CORR. LABOR	MAJOR INSP. LABOR	TUNE-UP PARTS COST	TOTAL LABOR	TOTAL PARTS	TOTAL COST
[illegible]	1976	9.50	0.00	0.00	18.00	0.00	0.00	7.50	4.50	0.00	0.00	37.50	0.00	37.50
[illegible]	1976	12.00	0.00	0.00	12.00	0.00	0.00	0.00	0.00	0.00	0.00	24.00	0.00	24.00
[illegible]	1976	10.50	1.50	0.00	19.50	0.00	0.00	0.00	0.00	0.00	0.00	31.50	0.00	31.50
[illegible]	1976	10.50	0.00	0.00	22.50	0.00	0.00	0.00	0.00	0.00	0.00	33.00	0.00	33.00
[illegible]	1976	10.50	3.00	0.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	28.50	0.00	28.50
[illegible]	1976	10.50	0.00	0.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	25.50	0.00	25.50
[illegible]	1976	9.50	0.00	0.00	19.50	0.00	0.00	0.00	0.00	0.00	0.00	27.00	0.00	27.00
[illegible]	1976	10.50	0.00	0.00	10.50	0.00	0.00	0.00	0.00	0.00	0.00	21.00	0.00	21.00
[illegible]	1976	10.50	4.50	0.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	28.50	0.00	28.50
[illegible]	1976	9.50	3.00	0.00	10.50	0.00	0.00	7.50	0.00	0.00	0.00	33.00	0.00	33.00
[illegible]	1976	10.50	0.00	0.00	18.00	0.00	0.00	7.50	3.00	0.00	0.00	39.00	0.00	39.00
[illegible]	1976	9.50	1.50	0.00	10.50	0.00	0.00	0.00	0.00	0.00	0.00	21.00	0.00	21.00
[illegible]	1976	10.50	3.00	0.00	18.00	0.00	0.00	7.50	0.00	0.00	0.00	34.50	0.00	34.50
[illegible]	1976	9.50	0.00	0.00	10.50	0.00	0.00	0.00	0.00	0.00	0.00	24.00	0.00	24.00
[illegible]	1976	9.50	0.00	0.00	18.00	0.00	0.00	0.00	0.00	0.00	0.00	25.50	0.00	25.50
[illegible]	1976	10.50	0.00	0.00	15.00	0.00	0.00	7.50	0.00	0.00	0.00	30.00	0.00	30.00
[illegible]	1976	10.50	4.50	0.00	18.00	0.00	0.00	0.00	0.00	0.00	0.00	28.50	0.00	28.50
[illegible]	1976	9.50	4.50	0.00	16.50	0.00	0.00	7.50	0.00	22.50	36.68	61.50	36.68	98.18
[illegible]	1976	15.00	0.00	0.00	18.00	0.00	0.00	7.50	0.00	0.00	0.00	37.50	0.00	37.50
[illegible]	1976	12.00	4.50	0.00	13.50	0.00	0.00	0.00	0.00	0.00	0.00	28.50	0.00	28.50
[illegible]	1976	9.50	4.50	0.00	19.50	0.00	0.00	7.50	0.00	0.00	0.00	43.50	0.00	43.50
[illegible]	1976	9.50	0.00	0.00	18.00	0.00	0.00	0.00	0.00	0.00	0.00	30.00	0.00	30.00
[illegible]	1976	9.50	0.00	0.00	19.50	0.00	0.00	7.50	0.00	0.00	0.00	34.50	0.00	34.50
[illegible]	1976	9.50	0.00	0.00	18.00	0.00	0.00	0.00	0.00	0.00	0.00	25.50	0.00	25.50
[illegible]	1976	10.50	3.00	0.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	25.50	0.00	25.50
[illegible]	1976	9.50	4.50	0.00	18.00	0.00	0.00	0.00	0.00	0.00	0.00	28.50	0.00	28.50
[illegible]	1976	10.50	0.00	0.00	10.50	0.00	0.00	0.00	0.00	0.00	0.00	30.00	0.00	30.00
[illegible]	1976	10.50	0.00	0.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	21.00	0.00	21.00
[illegible]	1976	9.50	1.50	0.00	10.50	0.00	0.00	7.50	7.50	0.00	0.00	25.50	0.00	25.50
[illegible]	1976	9.50	0.00	0.00	18.00	0.00	0.00	0.00	0.00	0.00	0.00	36.00	0.00	36.00
[illegible]	1976	12.00	4.50	0.00	22.50	0.00	0.00	7.50	4.50	0.00	0.00	27.00	0.00	27.00
[illegible]	1976	9.50	9.50	0.00	22.50	0.00	0.00	7.50	3.00	22.50	39.00	42.00	0.00	42.00
OR	TOTALS	324.00	55.50	0.00	21.00	0.00	0.00	7.50	0.00	0.00	0.00	72.00	39.00	111.00
					559.50	0.00	0.00	97.50	22.50	45.00	75.68	43.50	0.00	43.50
												1104.00	75.68	1179.68

NOTE: LABOR COST BASED ON $19.00 PER HOUR
PARTS BASED ON RETAIL PARTS COST

Appendix H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

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APPENDIx H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
1	4001	1976	DODG	ASPE	318	1975 FTP	1.85	15.53	575.8	2.70	14.64
						HWY FET	.41	2.09	433.2	2.57	20.27
	IDLE HC,PPM/HEXANE				350.	FED 5 CY	2.18	10.20	453.3	1.84	18.64
	IDLE CO,PCT (MEAS)				1.15	NY/NJ	3.23	18.30	620.5	2.63	13.46
	IDLE CO,PCT (SPEC)				.30						
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	33	.01	1050	45	MPH
						LO SPEED	60	.01	300	30	MPH
						IDLE	100	.60	300	640	RPM
						2SP IDLE					
						HI IDLE	100	.02	110	2250	RPM
						LO IDLE	75	.23	40	820	RPM
						FED 3MOD					
						HI SPEED	20	.01	1425	26.0	DYNO HP
						LO SPEED	27	.01	520	12.0	DYNO HP
						IDLE - D	125	1.25	440		
						IDLE - N	280	1.10	125		
	COMMENTS: LIMITER CAPS OK										
3	4001	1976	DODG	ASPE	318	1975 FTP	1.45	6.93	565.0	2.53	15.29
						HWY FET	.38	.73	425.4	2.49	20.75
	IDLE HC,PPM/HEXANE				15.	FED 5 CY	1.38	4.29	442.7	1.82	19.56
	IDLE CO,PCT (MEAS)				.01	NY/NJ	2.89	6.56	580.9	2.74	14.78
	IDLE CO,PCT (SPEC)				.30						
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	29	.01	820	45	MPH
						LO SPEED	67	.01	260	30	MPH
						IDLE	23	.01	350	600	RPM
						2SP IDLE					
						HI IDLE	145	.02	80	2250	RPM
						LO IDLE	32	.02	81	750	RPM
						FED 3MOD					
						HI SPEED	18	.01	1050	26.0	DYNO HP
						LO SPEED	25	.01	400	12.0	DYNO HP
						IDLE - D	17	.01	430		
						IDLE - N	40	.02	86		
	COMMENTS: ADJUSTED IDLE CO										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
1	6002	1976	DODG	ASPE	225	1975 FTP	1.60	28.18	467.1	4.09	17.18
						HWY FET	.32	2.04	400.2	5.10	21.95
						FED S CY	2.14	21.74	367.8	2.67	21.71
						NY/NJ	3.16	41.45	479.4	3.04	16.00
	IDLE HC.PPM/HEXANE 165.										
	IDLE CO.PCT (MEAS) 2.50										
	IDLE CO.PCT (SPEC) .30										
						KEY MODE	HC. PPM	CO. PCT	NOX. PPM		
						HI SPEED	35	.01	1125	45 MPH	
						LO SPEED	37	.01	1400	30 MPH	
						IDLE	160	4.30	87	700 RPM	
						2SP IDLE					
						HI IDLE	40	.01	135	2250 RPM	
						LO IDLE	270	3.50	40	1100 RPM	
						FED 3MOD					
						HI SPEED	27	.01	1100	31.0 DYNO HP	
						LO SPEED	32	.01	900	15.0 DYNO HP	
						IDLE - D	280	4.20	86		
						IDLE - N	280	3.90	38		
	COMMENTS: LIMTER CAPS MSNG INITIAL TIMING +4										
2	6002	1976	DODG	ASPE	225	1975 FTP	1.51	25.36	490.7	3.03	16.58
						HWY FET	.36	2.01	469.1	4.32	18.75
						FED S CY	1.73	18.61	393.1	1.99	20.74
						NY/NJ	2.86	38.60	514.1	2.21	15.20
	IDLE HC.PPM/HEXANE 195.										
	IDLE CO.PCT (MEAS) 3.40										
	IDLE CO.PCT (SPEC) .30										
						KEY MODE	HC. PPM	CO. PCT	NOX. PPM		
						HI SPEED	30	.01	1475	45 MPH	
						LO SPEED	30	.01	620	30 MPH	
						IDLE	200	4.80	160	610 RPM	
						2SP IDLE					
						HI IDLE	40	.02	170	2250 RPM	
						LO IDLE	270	4.10	83	820 RPM	
						FED 3MOD					
						HI SPEED	20	.02	1550	31.0 DYNO HP	
						LO SPEED	27	.01	1400	15.0 DYNO HP	
						IDLE - D	160	5.00	160		
						IDLE - N	260	4.50	84		
	COMMENTS: ADJUST TIMING										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC		FUEL ECON (MPG)
3	6882	1976	DODG	ASPE	225	1975 FTP	.64	5.19	486.0	2.95		17.89
						HWY FET	.23	.38	399.7	3.70		22.13
	IDLE HC.PPM/HEXANE 50.					FED S CY	.41	.34	398.0	1.81		22.20
	IDLE CO.PCT (MEAS) .03					NY/NJ	1.98	.55	503.7	2.08		17.37
	IDLE CO.PCT (SPEC) .30						HC.	CO.	NOX.			
						KEY MODE	PPM	PCT	PPM			
						HI SPEED	27	.01	1675	45	MPH	
						LO SPEED	27	.01	550	30	MPH	
						IDLE	90	.26	240	540	RPM	
						2SP IDLE						
						HI IDLE	60	.01	165	2250	RPM	
						LO IDLE	25	.03	105	680	RPM	
						FED 3MOD						
						HI SPEED	15	.01	1650	31.0	DYNO HP	
						LO SPEED	27	.01	1550	15.0	DYNO HP	
2						IDLE - D	80	.30	300			
						IDLE - N	75	.19	84			
COMMENTS: ADJUST IDLE RPM AND CO												
6	6882	1976	DODG	ASPE	225	1975 FTP	.85	5.53	500.3	9.82		17.35
						HWY FET	.23	.33	401.8	11.91		22.02
	IDLE HC.PPM/HEXANE 325.					FED S CY	.89	1.20	399.2	7.15		21.97
	IDLE CO.PCT (MEAS) .22					NY/NJ	1.93	4.97	498.0	7.78		17.34
	IDLE CO.PCT (SPEC) .30						HC.	CO.	NOX.			
						KEY MODE	PPM	PCT	PPM			
						HI SPEED	37	.01	5200	45	MPH	
						LO SPEED	40	.01	3200	30	MPH	
						IDLE	50	.10	300	540	RPM	
						2SP IDLE						
						HI IDLE	20	.01	640	2250	RPM	
						LO IDLE	28	.06	58	700	RPM	
						FED 3MOD						
						HI SPEED	27	.01	5100	31.0	DYNO HP	
						LO SPEED	32	.01	5400	15.0	DYNO HP	
						IDLE - D	130	.25	90			
						IDLE - N	80	.14	56			
COMMENTS: EGR PLUGGED												

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL FCON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
7	4022	1976	DODG	ASPE	225	1975 FTP	.74	3.19	498.1	3.43	17.56
						HWY FET	.23	.29	394.3	3.64	22.44
		IDLE HC,PPM/HEXANE			75.	FED 5 CY	.43	.38	394.1	2.09	22.41
		IDLE CO,PCT (MEAS)			.01	NY/NJ	2.27	2.63	639.4	2.31	13.64
		IDLE CO,PCT (SPEC)			.30						
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	28	.01	1500	45	MPH
						LO SPEED	27	.01	480	30	MPH
						IDLE	20	.01	430	510	RPM
						2SP IDLE					
						HI IDLE	70	.01	175	2250	RPM
						LO IDLE	30	.01	120	670	RPM
						FED 3MOD					
						HI SPEED	13	.01	1600	31.0	DYNO HP
						LO SPEED	20	.01	1550	15.0	DYNO HP
						IDLE - D	15	.01	440		
						IDLE - N	17	.01	125		
	COMMENTS: LEAN BEST IDLE										
8	4002	1976	DODG	ASPE	225	1975 FTP	.75	2.95	480.4	4.31	18.21
						HWY FET	.26	.53	391.6	4.83	22.57
		IDLE HC,PPM/HEXANE			750.	FED 5 CY	.57	.75	383.2	2.59	22.98
		IDLE CO,PCT (MEAS)			.15	NY/NJ	2.38	2.94	477.8	2.98	18.11
		IDLE CO,PCT (SPEC)			.30						
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	29	.01	2075	45	MPH
						LO SPEED	28	0.00	680	30	MPH
						IDLE	23	.01	450	540	RPM
						2SP IDLE					
						HI IDLE	180	.01	200	2250	RPM
						LO IDLE	75	.01	120	650	RPM
						FED 3MOD					
						HI SPEED	25	.01	2300	31.0	DYNO HP
						LO SPEED	28	.01	1800	15.0	DYNO HP
						IDLE - D	18	.01	580		
						IDLE - N	60	.01	125		
	COMMENTS: TIMING +6										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
9	6002	1976	DODG	ASPE 225	1975 FTP	1.35	18.66	453.0	3.12	18.24
					HWY FET	.35	1.24	373.5	3.37	23.57
	IDLE HC,PPM/HEXANE			300.	FED 5 CY	1.40	13.41	353.4	1.80	23.39
	IDLE CO,PCT (MEAS)			3.30	NY/NJ	2.89	34.02	444.5	1.99	17.50
	IDLE CO,PCT (SPEC)			.30						
						HC, PPM	CO, PCT	NOX, PPM		
					KEY MODE					
					HI SPEED	27	.01	1350	45	MPH
					LO SPEED	32	.01	650	30	MPH
					IDLE	260	4.00	110	500	RPM
					2SP IDLE					
					HI IDLE	80	.02	135	2250	RPM
					LO IDLE	300	3.50	64	640	RPM
					FED 3MOD					
					HI SPEED	25	.01	1300	31.0	DYNO HP
					LO SPEED	36	.01	1300	15.0	DYNO HP
					IDLE - D	310	4.50	84		
					IDLE - N	310	4.10	65		
	COMMENTS: ADJUST IDLE CO TO 5.0%									
1	6003	1976	DODG	ASPE 225	1975 FTP	1.25	10.58	493.1	2.39	17.28
					HWY FET	.27	.54	364.5	3.36	24.24
	IDLE HC,PPM/HEXANE			90.	FED 5 CY	.81	1.20	395.1	1.76	22.22
	IDLE CO,PCT (MEAS)			.70	NY/NJ	1.72	8.93	524.1	1.80	16.33
	IDLE CO,PCT (SPEC)			.30						
						HC, PPM	CO, PCT	NOX, PPM		
					KEY MODE					
					HI SPEED	27	.01	1550	45	MPH
					LO SPEED	30	.01	900	30	MPH
					IDLE	60	.40	74	700	RPM
					2SP IDLE					
					HI IDLE	17	.01	280	2250	RPM
					LO IDLE	65	.40	70	680	RPM
					FED 3MOD					
					HI SPEED	26	.01	1900	26.0	DYNO HP
					LO SPEED	34	.01	1800	12.0	DYNO HP
					IDLE - D	-0	0.00	-0		
					IDLE - N	85	.47	70		
	COMMENTS: LIMITED CAPS ON									

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
1	4004	1976	DODG	ASPE	225	1975 FTP	1.26	6.95	475.8	3.34	18.09
						HWY FET	.26	.59	376.6	3.37	23.46
						FED S CY	.84	.99	380.8	1.99	23.05
						NY/NJ	1.97	5.08	494.0	2.59	17.46
	IDLE HC.PPM/HEXANE		90.								
	IDLE CO.PCT (MEAS)		.40								
	IDLE CO.PCT (SPEC)		.30								
							HC. PPM	CO. PCT	NOX. PPM		
						KEY MODE					
						HI SPEED	22	.01	1425	45 MPH	
						LO SPEED	28	.01	800	30 MPH	
						IDLE	120	.63	200	640 RPM	
						2SP IDLE					
						HI IDLE	50	.02	165	2250 RPM	
						LO IDLE	100	2.50	125	900 RPM	
						FED 3MOD					
						HI SPEED	15	.01	1625	31.0 DYNO HP	
						LO SPEED	23	.01	1650	15.0 DYNO HP	
						IDLE - D	110	.70	800		
						IDLE - N	90	.20	115		
	COMMENTS: LIMITER CAPS OK										
2	4004	1976	DODG	ASPE	225	1975 FTP	.92	4.15	465.9	3.07	18.67
						HWY FET	.26	.47	372.4	3.12	23.73
						FED S CY	.71	.67	367.5	1.81	23.94
						NY/NJ	2.09	2.39	479.9	2.55	18.10
	IDLE HC.PPM/HEXANE		400.								
	IDLE CO.PCT (MEAS)		.12								
	IDLE CO.PCT (SPEC)		.30								
							HC. PPM	CO. PCT	NOX. PPM		
						KEY MODE					
						HI SPEED	20	.01	1400	45 MPH	
						LO SPEED	23	.01	640	30 MPH	
						IDLE	50	.08	280	550 RPM	
						2SP IDLE					
						HI IDLE	40	.02	135	2250 RPM	
						LO IDLE	30	.02	95	700 RPM	
						FED 3MOD					
						HI SPEED	14	.01	1150	31.0 DYNO HP	
						LO SPEED	24	.01	1400	15.0 DYNO HP	
						IDLE - D	200	1.00	400		
						IDLE - N	100	.12	65		
	COMMENTS: ADJUSTED IDLE RPM AND CO										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
1	6005	1976	DODG	ASPE	225	1975 FTP	2.57	35.42	461.4	1.79	16.90
						HWY FET	.76	12.74	373.3	1.95	22.43
	IDLE HC.PPM/HEXANE 250.					FED S CY	2.05	23.91	371.2	1.16	21.37
	IDLE CO.PCT (MEAS) 5.00					NY/NJ	2.44	41.82	492.3	1.35	15.69
	IDLE CO.PCT (SPEC) .30						HC. PPM	CO. PCT	NOX. PPM		
						KEY MODE					
						HI SPEED	42	.07	940	50 MPH	
						LO SPEED	106	1.90	600	35 MPH	
						IDLE	70	6.40	110	500 RPM	
						2SP IDLE					
						HI IDLE	37	.08	180	2250 RPM	
						LO IDLE	300	5.50	82	650 RPM	
						FED 3MOD					
R						HI SPEED	35	.55	1300	26.0 DYNO HP	
						LO SPEED	107	1.70	690	12.0 DYNO HP	
						IDLE - D	280	5.40	82		
						IDLE - N	200	4.70	84		
	COMMENTS: LIMITER CAPS MISSING TIMING -5 DEGREES										
2	6005	1976	DODG	ASPE	225	1975 FTP	2.74	40.16	431.5	2.44	17.63
						HWY FET	.65	6.76	376.3	2.75	22.82
	IDLE HC.PPM/HEXANE 499.					FED S CY	2.78	33.86	337.8	1.62	22.20
	IDLE CO.PCT (MEAS) 6.10					NY/NJ	3.68	68.33	439.2	1.80	15.90
	IDLE CO.PCT (SPEC) .30						HC. PPM	CO. PCT	NOX. PPM		
						KEY MODE					
						HI SPEED	12	.01	940	45 MPH	
						LO SPEED	25	.01	600	30 MPH	
						IDLE	310	5.60	89	470 RPM	
						2SP IDLE					
						HI IDLE	30	.02	180	2250 RPM	
						LO IDLE	390	5.50	65	610 RPM	
						FED 3MOD					
						HI SPEED	20	.01	1625	26.0 DYNO HP	
						LO SPEED	60	.32	780	12.0 DYNO HP	
						IDLE - D	400	6.60	65		
						IDLE - N	520	6.40	45		
	COMMENTS: TIMING ADJUSTED										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
D	6005	1976	DODG	ASPE	225	1975 FTP	1.09	8.29	476.1	2.53	18.02
						HWY FET	.23	.72	380.0	2.99	23.24
	IDLE HC,PPM/HEXANE				117.	FED 5 CY	.98	3.42	334.5	1.54	25.88
	IDLE CO,PCT (MEAS)				1.35	NY/NJ	1.97	8.26	481.7	1.85	17.72
	IDLE CO,PCT (SPEC)				.30						
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	15	.01	920	45 MPH	
						LO SPEED	30	.01	560	30 MPH	
						IDLE	125	.55	480	580 RPM	
						2SP IDLE					
						HI IDLE	40	.01	190	2250 RPM	
						LO IDLE	90	.43	93	750 RPM	
						FED 3MOD					
						HI SPEED	20	.01	1350	26.0 DYNO HP	
						LO SPEED	27	.01	1075	12.0 DYNO HP	
E						IDLE - D	130	1.30	300		
						IDLE - N	117	1.35	105		

COMMENTS: IDLE RPM AND CO ADJUSTED

I	6006	1976	DODG	ASPE	318	1975 FTP	4.04	59.89	532.9	2.73	13.87
						HWY FET	.69	3.29	452.8	3.42	19.29
	IDLE HC,PPM/HEXANE				610.	FED 5 CY	3.64	40.75	434.1	2.30	17.41
	IDLE CO,PCT (MEAS)				5.20	NY/NJ	5.70	83.92	541.3	2.54	12.84
	IDLE CO,PCT (SPEC)				.30						
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	32	.01	1150	45 MPH	
						LO SPEED	110	.02	720	30 MPH	
						IDLE	430	5.90	63	520 RPM	
						2SP IDLE					
						HI IDLE	220	.04	250	2250 RPM	
						LO IDLE	600	5.60	68	670 RPM	
						FED 3MOD					
						HI SPEED	38	.02	1906	31.0 DYNO HP	
						LO SPEED	47	.02	1050	15.0 DYNO HP	
						IDLE - D	400	5.90	66		
						IDLE - N	610	5.30	59		

COMMENTS: LIMIT CAPS MISSING VAC KICK OUT OF SPEC AIR HORN WARPED

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
2	6006	1976	DODG	ASPE	318	1975 FTP	4.48	70.57	513.7	2.31	13.89
						HWY FET	.78	3.48	462.0	2.98	18.89
	IDLE HC,PPM/HEXANE				620.	FED S CY	3.85	37.42	430.5	2.19	17.70
	IDLE CO,PCT (MEAS)				4.80	NY/NJ	6.87	84.53	555.5	2.35	12.54
	IDLE CO,PCT (SPEC)				.30						
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	47	.05	1400	45 MPH	
						LO SPEED	165	.02	680	30 MPH	
						IDLE	520	5.80	66	570 RPM	
						2SP IDLE					
						HI IDLE	380	.04	245	2250 RPM	
						LO IDLE	700	5.40	64	750 RPM	
						FED 3MOD					
						HI SPEED	45	.03	1725	31.0 DYNO HP	
						LO SPEED	60	.02	1000	15.0 DYNO HP	
						IDLE - D	480	5.70	57		
						IDLE - N	640	5.00	57		
COMMENTS: STRAIGHTENED AIR HORN ADJSTED VAC KICK											
3	6006	1976	DODG	ASPE	318	1975 FTP	1.79	19.47	555.3	2.66	15.00
						HWY FET	.47	1.32	452.5	2.76	19.46
	IDLE HC,PPM/HEXANE				950.	FED S CY	1.14	.56	463.2	2.26	18.98
	IDLE CO,PCT (MEAS)				.15	NY/NJ	3.65	1.39	601.4	2.33	14.43
	IDLE CO,PCT (SPEC)				.30						
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	55	.02	1450	45 MPH	
						LO SPEED	140	.01	650	30 MPH	
						IDLE	40	.01	240	620 RPM	
						2SP IDLE					
						HI IDLE	450	.02	245	2250 RPM	
						LO IDLE	80	.01	100	750 RPM	
						FED 3MOD					
						HI SPEED	27	.02	1750	31.0 DYNO HP	
						LO SPEED	45	.02	970	15.0 DYNO HP	
						IDLE - D	25	.01	260		
						IDLE - N	75	.01	105		
COMMENTS: ADJSTED RPM AND IDLE CO											

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	---- EMISSION RESULTS (GMS/MI) ---- HC	CO	CO2	NOXC	FUEL ECON (MPG)
4	4000	1976	DODG	ASPE	318	1975 FTP	1.82	7.10	604.0	3.07	14.29
						HWY FET	.55	.73	462.7	3.41	19.06
	IDLE HC,PPM/HEXANE				50.	FED S CY	1.71	.49	492.4	2.46	17.80
	IDLE CO,PCT (MEAS)				.01	NY/NJ	3.73	3.18	638.9	2.95	13.53
	IDLE CO,PCT (SPEC)				.10						
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	34	.01	1425	45	MPH
						LO SPEED	100	.01	860	30	MPH
						IDLE	29	.01	380	600	RPM
						2SP IDLE					
						HI IDLE	380	.02	240	2250	RPM
						LO IDLE	55	.01	140	750	RPM
						FED 3MOD					
						HI SPEED	26	.01	1650	31.0	DYNO HP
						LO SPEED	53	.02	1050	15.0	DYNO HP
						IDLE - D	31	.01	260		
						IDLE - N	70	.01	110		
COMMENTS: MAJOR TUNE-UP, ADDED 2 QTS ANTIFREEZE											
8	4000	1976	DODG	ASPE	318	1975 FTP	2.60	5.78	595.2	2.83	14.49
						HWY FET	.40	.40	458.9	3.68	19.26
	IDLE HC,PPM/HEXANE				80.	FED S CY	1.30	.65	505.3	1.70	17.39
	IDLE CO,PCT (MEAS)				.03	NY/NJ	2.78	2.75	653.0	2.08	13.32
	IDLE CO,PCT (SPEC)				.30						
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	27	.01	1600	45	MPH
						LO SPEED	50	.01	520	30	MPH
						IDLE	33	.02	400	620	RPM
						2SP IDLE					
						HI IDLE	120	.01	180	2250	RPM
						LO IDLE	50	.03	100	750	RPM
						FED 3MOD					
						HI SPEED	22	.01	1600	31.0	DYNO HP
						LO SPEED	32	.01	900	15.0	DYNO HP
						IDLE - D	32	.04	300		
						IDLE - N	45	.01	140		
COMMENTS: REPLACED CARBURETOR											

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
1	6007	1976	DODG	ASPE	318	1975 FTP	2.96	52.73	506.0	5.51	14.84
						HWY FET	.53	3.26	405.1	7.00	21.55
	IDLE HC,PPM/HEXANE 480.					FED S CY	2.51	35.66	428.9	4.69	18.01
	IDLE CO,PCT (MEAS) 3.80					NY/NJ	3.83	68.68	558.4	4.70	13.08
	IDLE CO,PCT (SPEC) .30										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	30	.01	4000	45	MPH
						LO SPEED	30	.02	2000	30	MPH
						IDLE	270	4.70	105	610	RPM
						2SP IDLE					
						HI IDLE	17	.02	400	2250	RPM
						LO IDLE	480	3.90	74	850	RPM
						FED 3MOD					
						HI SPEED	33	.01	4100	26.0	DYNO HP
						LO SPEED	37	.01	2700	12.0	DYNO HP
						IDLE - D	270	4.90	120		
						IDLE - N	508	4.10	74		
COMMENTS: LIM CAPS OK. HOSE FRM VENTURI TO EGR/IE DELAY SOLENOID MSSNG											
2	6007	1976	DODG	ASPE	318	1975 FTP	2.84	46.87	529.6	1.85	14.58
						HWY FET	.52	2.65	424.5	2.14	20.63
	IDLE HC,PPM/HEXANE 525.					FED S CY	2.59	31.19	441.9	1.31	17.78
	IDLE CO,PCT (MEAS) 3.35					NY/NJ	3.96	66.35	591.5	1.57	12.53
	IDLE CO,PCT (SPEC) .30										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	30	.01	1250	45	MPH
						LO SPEED	40	.02	520	30	MPH
						IDLE	250	4.50	120	620	RPM
						2SP IDLE					
						HI IDLE	50	.02	160	2250	RPM
						LO IDLE	500	3.50	92	870	RPM
						FED 3MOD					
						HI SPEED	24	.01	1200	26.0	DYNO HP
						LO SPEED	40	.01	370	12.0	DYNO HP
						IDLE - D	250	4.50	115		
						IDLE - N	460	3.50	80		
COMMENTS: HOSE FRM VENTRI TO DELY SOLENOID REPLCED. HOSE RTE CORRECTED											

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
3	6887	1976	DODG	ASPE	318	1975 FTP	1.40	5.76	562.2	1.98	15.42
						HWY FET	.37	.61	426.4	2.17	20.71
	IDLE HC,PPM/HEXANE				10.	FED 5 CY	1.21	2.39	447.7	1.31	19.49
	IDLE CO,PCT (MEAS)				.01	MY/MJ	2.86	4.95	583.5	1.64	14.78
	IDLE CO,PCT (SPEC)				.30						
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	24	.01	1100	45	MPH
						LO SPEED	45	.01	410	30	MPH
						IDLE	27	.04	160	560	RPM
						2SP IDLE					
						HI IDLE	55	.02	150	2250	RPM
						LO IDLE	65	.02	84	600	RPM
						FED 3MOD					
						HI SPEED	21	.01	1300	26.0	DYNO HP
						LO SPEED	30	.01	400	12.0	DYNO HP
						IDLE - D	28	.02	150		
						IDLE - N	98	.05	73		
COMMENTS: IDLE RPM AND CO ADJUSTED											
1	6888	1976	DODG	CHAR	318	1975 FTP	1.36	6.90	591.7	2.82	14.62
						HWY FET	.41	.61	440.7	3.36	20.04
	IDLE HC,PPM/HEXANE				880.	FED 5 CY	1.73	5.97	447.8	2.10	19.18
	IDLE CO,PCT (MEAS)				.05	MY/MJ	5.77	7.08	561.8	1.12	15.01
	IDLE CO,PCT (SPEC)				.70						
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	23	.02	1250	50	MPH
						LO SPEED	30	.01	700	35	MPH
						IDLE	22	.01	220	540	RPM
						2SP IDLE					
						HI IDLE	45	.01	170	2250	RPM
						LO IDLE	35	.01	90	640	RPM
						FED 3MOD					
						HI SPEED	22	.02	1650	31.0	DYNO HP
						LO SPEED	24	.01	980	15.0	DYNO HP
						IDLE - D	22	.01	225		
						IDLE - N	43	.01	86		
COMMENTS: LIMITED CAPS ON											

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
1	6009	1976	DODG	CORO	318	1975 FTP	1.02	16.57	757.5	3.02	11.28
						HWY FET	.83	3.44	470.6	4.89	18.55
	IDLE HC,PPM/HEXANE		30.			FED S CY	.95	6.63	569.1	2.95	15.23
	IDLE CO,PCT (MEAS)		.50			NY/NJ	1.10	12.94	813.8	2.19	10.60
	IDLE CO,PCT (SPEC)		.50								
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	12	.08	900	50 MPH	
						LO SPEED	43	.10	1250	35 MPH	
						IDLE	40	.65	64	550 RPM	
						2SP IDLE					
						HI IDLE	18	.09	260	2250 RPM	
						LO IDLE	18	.33	38	640 RPM	
						FED 3MOD					
						HI SPEED	10	.09	740	31.0 DYNO HP	
						LO SPEED	50	.10	1150	15.0 DYNO HP	
						IDLE - D	40	.70	63		
						IDLE - N	17	.31	36		
	COMMENTS: LIM CAPS MSNG PIPE FRM HEATSTV TO AIR CLNR SNRKL MSG										
2	6009	1976	DODG	CORO	318	1975 FTP	.99	12.18	764.4	2.94	11.28
						HWY FET	.82	3.30	469.2	4.26	18.61
	IDLE HC,PPM/HEXANE		50.			FED S CY	.97	5.86	583.3	2.55	14.90
	IDLE CO,PCT (MEAS)		.30			NY/NJ	1.29	9.64	856.7	1.95	10.13
	IDLE CO,PCT (SPEC)		.50								
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	12	.08	900	50 MPH	
						LO SPEED	53	.10	1350	35 MPH	
						IDLE	40	.58	64	550 RPM	
						2SP IDLE					
						HI IDLE	18	.09	220	2250 RPM	
						LO IDLE	17	.29	35	650 RPM	
						FED 3MOD					
						HI SPEED	12	.09	630	31.0 DYNO HP	
						LO SPEED	50	.10	1500	15.0 DYNO HP	
						IDLE - D	30	.45	68		
						IDLE - N	17	.22	38		
	COMMENTS: REPLCD TUBE TO AIR CLNR SET VACUUM KICK TO MANF SPECS										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	---- EMISSION RESULTS (GMS/MI) ---- HC	CO	CO2	NOXC	FUEL ECON (MPG)
1	6010	1976	DODG	CHAR	360	1975 FTP	2.47	71.35	620.0	2.28	11.99
						HWY FET	.61	11.41	464.0	4.50	18.34
	IDLE HC,PPM/HEXANE 280.					FED S CY	3.20	72.81	487.8	2.73	14.49
	IDLE CO,PCT (MEAS) 5.20					NY/NJ	4.84	132.78	607.0	1.25	10.68
	IDLE CO,PCT (SPEC) .30										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	10	.07	2100	50 MPH	
						LO SPEED	45	.31	2150	35 MPH	
						IDLE	240	5.30	44	500 RPM	
						2SP IDLE					
						HI IDLE	37	1.30	350	2250 RPM	
						LO IDLE	260	5.60	43	600 RPM	
						FED 3MOD					
						HI SPEED	15	.03	2100	31.0 DYNO HP	
						LO SPEED	60	.44	2275	15.0 DYNO HP	
						IDLE - D	220	5.60	48		
						IDLE - N	270	5.50	44		
	COMMENTS: LIMITER CAPS BROKEN VAC KICK OUT OF SPECS										
2	6010	1976	DODG	CHAR	360	1975 FTP	2.91	77.35	628.3	2.23	11.69
						HWY FET	.52	8.85	458.7	4.34	18.71
	IDLE HC,PPM/HEXANE 250.					FED S CY	2.90	65.32	484.9	2.75	14.87
	IDLE CO,PCT (MEAS) 5.70					NY/NJ	4.95	124.63	642.1	1.38	10.40
	IDLE CO,PCT (SPEC) .30										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	15	.02	2350	50 MPH	
						LO SPEED	16	.03	2300	35 MPH	
						IDLE	230	5.00	45	500 RPM	
						2SP IDLE					
						HI IDLE	11	.03	400	2250 RPM	
						LO IDLE	240	5.40	43	560 RPM	
						FED 3MOD					
						HI SPEED	7	.01	2350	31.0 DYNO HP	
						LO SPEED	15	.01	2800	15.0 DYNO HP	
						IDLE - D	240	5.90	49		
						IDLE - N	240	5.80	45		
	COMMENTS: ADJUST VAC KICK TO MAN SPECS										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
3	6010	1976	DODG	CHAR	360	1975 FTP	.39	3.81	707.8	2.49	12.41
						HWY FET	.13	.53	468.9	4.63	18.88
	IDLE HC,PPM/HEXANE 15.					FED S CY	.28	1.15	556.4	3.23	15.87
	IDLE CO,PCT (MEAS) .01					NY/NJ	.37	.57	757.4	1.66	11.69
	IDLE CO,PCT (SPEC) .30										
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	12	.02	2150	50 MPH	
						LO SPEED	12	.01	2200	35 MPH	
						IDLE	8	.01	65	540 RPM	
						2SP IDLE					
						HI IDLE	3	.01	350	2250 RPM	
						LO IDLE	8	.01	60	580 RPM	
						FED 3MOD					
						HI SPEED	8	.02	2300	31.0 DYNO HP	
						LO SPEED	12	.01	2300	15.0 DYNO HP	
						IDLE - D	7	.01	84		
						IDLE - N	7	.01	57		
	COMMENTS: IDLE CO AND RPM ADJUSTED										
1	6011	1976	DODG	CHAR	318	1975 FTP	4.22	51.32	655.7	2.01	11.84
						HWY FET	.47	2.33	440.7	2.86	19.91
	IDLE HC,PPM/HEXANE 395.					FED S CY	2.63	28.25	489.2	1.74	16.38
	IDLE CO,PCT (MEAS) 3.40					NY/NJ	5.02	57.55	675.8	2.61	11.35
	IDLE CO,PCT (SPEC) .30										
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	15	.04	2600	50 MPH	
						LO SPEED	15	.02	1000	35 MPH	
						IDLE	300	4.35	145	730 RPM	
						2SP IDLE					
						HI IDLE	90	.02	160	2250 RPM	
						LO IDLE	360	3.30	85	1020 RPM	
						FED 3MOD					
						HI SPEED	25	.02	1275	31.0 DYNO HP	
						LO SPEED	35	.01	750	15.0 DYNO HP	
						IDLE - D	290	3.80	150		
						IDLE - N	360	3.20	82		
	COMMENTS: LIM CAPS MSG DISTRIBUTOR VAC DIAPHRAGM LEAKS										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
3	6011	1976	DODG	CHAR	318	1975 FTP	2.46	14.10	601.0	2.55	14.07
						HWY FET	.38	.40	435.8	2.75	20.28
	IDLE HC,PPM/HEXANE		430.			FED S CY	.92	.56	482.3	1.75	18.26
	IDLE CO,PCT (MEAS)		.20			NY/NJ	3.10	2.20	612.4	2.36	14.18
	IDLE CO,PCT (SPEC)		.30								
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	13	.05	2900	50 MPH	
						LO SPEED	17	.02	1000	35 MPH	
						IDLE	17	.01	230	620 RPM	
						2SP IDLE					
						HI IDLE	125	.01	1500	2250 RPM	
						LO IDLE	35	.01	95	700 RPM	
						FED 3MOD					
						HI SPEED	14	.02	1200	31.0 DYNO HP	
						LO SPEED	33	.01	720	15.0 DYNO HP	
						IDLE - D	20	.01	225		
						IDLE - N	55	.01	70		
	COMMENTS: ADJUST IDLE CO AND RPM										
4	6011	1976	DODG	CHAR	318	1975 FTP	1.95	7.77	614.3	2.81	14.03
						HWY FET	.49	.61	455.1	3.09	19.40
	IDLE HC,PPM/HEXANE		700.			FED S CY	1.13	1.70	492.9	1.81	17.78
	IDLE CO,PCT (MEAS)		.18			NY/NJ	3.46	5.15	709.1	2.55	12.19
	IDLE CO,PCT (SPEC)		.30								
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	7	.01	2350	50 MPH	
						LO SPEED	8	.01	800	35 MPH	
						IDLE	8	.01	140	550 RPM	
						2SP IDLE					
						HI IDLE	52	.01	180	2250 RPM	
						LO IDLE	13	.01	70	700 RPM	
						FED 3MOD					
						HI SPEED	7	.01	1150	31.0 DYNO HP	
						LO SPEED	10	.01	800	15.0 DYNO HP	
						IDLE - D	17	.02	130		
						IDLE - N	10	.01	70		
	COMMENTS: MAJOR TUNE-UP, REPLACED VAC DIAPHRAGM										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
1	6012	1976	DODG	CORO	360	1975 FTP	.69	9.67	749.7	3.84	11.57
						HWY FET	.09	.86	505.2	5.30	17.51
	IDLE HC,PPM/HEXANE			15.		FED S CY	.16	2.07	602.2	3.58	14.65
	IDLE CO,PCT (MEAS)			.01		NY/NJ	.18	.35	754.1	2.69	11.75
	IDLE CO,PCT (SPEC)			.30							
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	15	0.00	2150	50 MPH	
						LO SPEED	12	0.00	1200	35 MPH	
						IDLE	10	.07	40	640 RPM	
						2SP IDLE					
						HI IDLE	13	0.00	225	2250 RPM	
						LO IDLE	15	.10	45	760 RPM	
						FED 3MOD					
						HI SPEED	10	0.00	2300	31.0 DYNO HP	
						LO SPEED	10	0.00	1500	15.0 DYNO HP	
						IDLE - D	13	.05	40		
						IDLE - N	15	.09	47		
COMMENTS: ONE CAP MISSING, OTHER BROKEN, VAC KICK OUT OF SPEC											
2	6012	1976	DODG	CORO	360	1975 FTP	.65	10.19	738.9	3.73	11.72
						HWY FET	.10	.96	502.8	5.17	17.59
	IDLE HC,PPM/HEXANE			75.		FED S CY	.20	1.97	597.5	3.46	14.76
	IDLE CO,PCT (MEAS)			.15		NY/NJ	.22	1.32	815.4	2.61	10.85
	IDLE CO,PCT (SPEC)			.30							
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	15	.01	2175	50 MPH	
						LO SPEED	10	.01	1450	35 MPH	
						IDLE	20	.07	80	650 RPM	
						2SP IDLE					
						HI IDLE	10	.01	270	2250 RPM	
						LO IDLE	12	.10	45	760 RPM	
						FED 3MOD					
						HI SPEED	10	.01	2400	31.0 DYNO HP	
						LO SPEED	10	.01	1650	15.0 DYNO HP	
						IDLE - D	10	.04	125		
						IDLE - N	20	.05	38		
COMMENTS: VAC KICK SET TO SPEC											

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
3	6012	1976	DODG	CORO	360	1975 FTP	.43	5.92	744.7	3.58	11.75
						HWY FET	.09	.45	508.5	5.10	17.42
	IDLE HC,PPM/HEXANE			5.		FED S CY	.13	.70	589.7	3.39	15.01
	IDLE CO,PCT (MEAS)			.01		NY/NJ	.18	.82	737.3	1.68	12.01
	IDLE CO,PCT (SPEC)			.30							
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	17	.01	2100	50 MPH	
						LO SPEED	13	.01	1350	35 MPH	
						IDLE	7	.01	86	630 RPM	
						2SP IDLE					
						HI IDLE	10	.01	260	2250 RPM	
						LO IDLE	7	.01	64	720 RPM	
						FED 3MOD					
						HI SPEED	8	.01	2300	31.0 DYNO HP	
						LO SPEED	8	.01	1500	15.0 DYNO HP	
						IDLE - D	6	.01	96		
						IDLE - N	6	.01	69		
	COMMENTS: ADJUST IDLE RPM AND CO										
4	6012	1976	DODG	CORO	360	1975 FTP	.47	6.46	740.5	3.43	11.80
						HWY FET	.08	.39	487.5	4.86	18.17
	IDLE HC,PPM/HEXANE			3.		FED S CY	.13	.98	577.0	3.26	15.33
	IDLE CO,PCT (MEAS)			.01		NY/NJ	.16	.09	801.5	2.29	11.06
	IDLE CO,PCT (SPEC)			.30							
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	15	.01	2200	50 MPH	
						LO SPEED	8	.01	1350	35 MPH	
						IDLE	4	.01	85	600 RPM	
						2SP IDLE					
						HI IDLE	12	.01	270	2250 RPM	
						LO IDLE	3	.01	50	700 RPM	
						FED 3MOD					
						HI SPEED	7	.01	2350	31.0 DYNO HP	
						LO SPEED	5	.01	1400	15.0 DYNO HP	
						IDLE - D	3	.01	90		
						IDLE - N	2	.01	69		
	COMMENTS: MAJOR TUNE-UP										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
1	6013	1976	DODG	MONA	360	1975 FTP	1.40	41.03	696.4	1.71	11.60
						HWY FET	.20	3.40	441.3	3.91	19.84
						FED S CY	1.26	30.83	510.7	2.74	15.76
						NY/NJ	1.99	55.10	704.8	1.25	11.13
	IDLE HC,PPM/HEXANE		105.								
	IDLE CO,PCT (MEAS)		3.75								
	IDLE CO,PCT (SPEC)		.30								
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	23	.01	2000	50 MPH	
						LO SPEED	13	.01	1750	35 MPH	
						IDLE	88	3.10	70	600 RPM	
						2SP IDLE					
						HI IDLE	10				
						LO IDLE	77	.01	280	2250 RPM	
						FED 3MOD		3.40	56	790 RPM	
						HI SPEED	12				
						LO SPEED	14	.01	2350	15.0 DYNO HP	
						IDLE - D	82	.01	2100	31.0 DYNO HP	
						IDLE - N	85	3.20	90		
	COMMENTS: LIMITER CAPS BROKEN					VAC KICK OUT OF SPEC		3.60	58		
2	6013	1976	DODG	MONA	360	1975 FTP	1.86	45.95	606.2	2.38	12.97
						HWY FET	.34	3.90	436.6	3.94	20.00
						FED S CY	1.49	35.28	480.0	2.83	16.43
						NY/NJ	2.33	60.89	613.1	1.41	12.39
	IDLE HC,PPM/HEXANE		450.								
	IDLE CO,PCT (MEAS)		4.30								
	IDLE CO,PCT (SPEC)		.30								
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	23	.01	2100	50 MPH	
						LO SPEED	27	.01	2250	35 MPH	
						IDLE	118	3.80	30	540 RPM	
						2SP IDLE					
						HI IDLE	17				
						LO IDLE	112	.01	280	2250 RPM	
						FED 3MOD		4.20	36	730 RPM	
						HI SPEED	18				
						LO SPEED	25	.01	2250	31.0 DYNO HP	
						IDLE - D	118	.01	2800	15.0 DYNO HP	
	COMMENTS: VAC KICK ADJUSTED					IDLE - N	123	4.20	14		
								4.20	36		

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
3	6013	1976	DODG	MONA	360	1975 FTP	.65	8.40	662.9	2.77	13.09
						HWY FET	.12	.32	443.2	4.38	19.99
	IDLE HC,PPM/HEXANE				40.	FED S CY	.23	.17	515.3	3.47	17.19
	IDLE CO,PCT (MEAS)				.03	NY/NJ	.35	.18	700.0	1.63	12.65
	IDLE CO,PCT (SPEC)				.30						
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	37	.01	2050	50 MPH	
						LO SPEED	18	.01	1950	35 MPH	
						IDLE	12	.01	65	570 RPM	
						2SP IDLE					
						HI IDLE	7	.01	260	2250 RPM	
						LO IDLE	12	.01	45	690 RPM	
						FED 3MOD					
						HI SPEED	7	.01	2300	31.0 DYNO HP	
						LO SPEED	14	.01	2450	15.0 DYNO HP	
						IDLE - D	6	.01	67		
						IDLE - N	8	.01	48		
	COMMENTS: ADJUSTED IDLE CO										
1	6014	1976	PLYM	VOLA	225	1975 FTP	1.20	11.70	494.8	2.61	17.17
						HWY FET	.32	1.72	347.4	3.58	25.28
	IDLE HC,PPM/HEXANE				75.	FED S CY	.78	4.31	397.5	1.95	21.82
	IDLE CO,PCT (MEAS)				.80	NY/NJ	1.90	14.48	568.2	1.54	14.87
	IDLE CO,PCT (SPEC)				.30						
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	35	.01	1800	45 MPH	
						LO SPEED	32	.01	1250	30 MPH	
						IDLE	65	1.55	98	670 RPM	
						2SP IDLE					
						HI IDLE	18	.01	280	2250 RPM	
						LO IDLE	67	1.55	90	670 RPM	
						FED 3MOD					
						HI SPEED	27	.01	2600	31.0 DYNO HP	
						LO SPEED	33	.01	2450	15.0 DYNO HP	
						IDLE - D	65	1.60	105		
	COMMENTS: LIM CAPS OK					IDLE - N	65	1.60	105		

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC		FUEL ECON (MPG)
1	6015	1976	PLYM	VOLA	225	1975 FTP	1.72	9.41	496.1	4.09		17.19
						HWY FET	.64	4.36	384.3	3.52		22.58
	IDLE HC,PPM/HEXANE		250.			FED S CY	1.24	3.97	395.2	2.59		21.89
	IDLE CO,PCT (MEAS)		.15			NY/NJ	2.43	5.72	559.4	3.44		15.41
	IDLE CO,PCT (SPEC)		.30									
							HC, PPM	CO, PCT	NOX, PPM			
						KEY MODE						
						HI SPEED	13	.01	2050	50	MPH	
						LO SPEED	15	.01	1300	35	MPH	
						IDLE	25	.03	900	640	RPM	
						2SP IDLE						
						HI IDLE	20	.01	260	2250	RPM	
						LO IDLE	55	.02	220	910	RPM	
						FED 3MOD						
						HI SPEED	10	.02	2250	25.1	DYNO HP	
						LO SPEED	15	.01	1800	22.4	DYNO HP	
						IDLE - D	20	.03	730			
						IDLE - N	45	.03	160			
COMMENTS: LIM CAPS OK VAC ADV OUT OF SPEC												
3	6015	1976	PLYM	VOLA	225	1975 FTP	1.76	9.37	470.3	3.32		18.09
						HWY FET	.74	2.68	381.8	3.55		22.85
	IDLE HC,PPM/HEXANE		500.			FED S CY	1.81	3.32	363.7	1.97		23.69
	IDLE CO,PCT (MEAS)		.40			NY/NJ	3.45	7.98	481.1	2.06		17.59
	IDLE CO,PCT (SPEC)		.30									
							HC, PPM	CO, PCT	NOX, PPM			
						KEY MODE						
						HI SPEED	40	.06	1650	50	MPH	
						LO SPEED	50	.01	900	35	MPH	
						IDLE	190	.60	340	520	RPM	
						2SP IDLE						
						HI IDLE	110	.06	230	2250	RPM	
						LO IDLE	480	.55	82	650	RPM	
						FED 3MOD						
						HI SPEED	35	.10	1900	31.0	DYNO HP	
						LO SPEED	50	.03	1350	15.0	DYNO HP	
						IDLE - D	140	1.55	79			
						IDLE - N	300	1.80	32			
COMMENTS: IDLE RPM AND CO ADJUSTED												

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
4	6015	1976	PLYM	VOLA	225	1975 FTP	1.41	6.35	484.6	3.41	17.78
						HWY FET	.69	3.49	390.3	3.53	22.30
						FED S CY	1.49	3.45	390.0	2.15	22.18
						NY/NJ	2.27	6.36	514.9	2.12	16.68
	IDLE HC,PPM/HEXANE				300.						
	IDLE CO,PCT (MEAS)				.15						
	IDLE CO,PCT (SPEC)				.30						
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	28	.02	1500	50 MPH	
						LO SPEED	40	.01	930	35 MPH	
						IDLE	53	.07	420	510 RPM	
						2SP IDLE					
						HI IDLE	55	.03	215	2250 RPM	
						LO IDLE	75	.09	105	640 RPM	
						FED 3MOD					
						HI SPEED	30	.08	1700	31.0 DYNO HP	
						LO SPEED	42	.02	1400	15.0 DYNO HP	
						IDLE - D	115	.30	400		
						IDLE - N	190	.60	115		
	COMMENTS: DISTRIBUTOR REPLACED, MAJOR TUNE-UP										
1	6016	1976	PLYM	DUST	225	1975 FTP	1.10	10.72	360.1	1.64	23.33
						HWY FET	.24	.51	325.2	1.81	27.16
						FED S CY	1.03	2.30	332.7	1.18	26.13
						NY/NJ	1.82	5.71	450.3	1.46	19.08
	IDLE HC,PPM/HEXANE				160.						
	IDLE CO,PCT (MEAS)				.50						
	IDLE CO,PCT (SPEC)				.30						
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	12	.01	490	50 MPH	
						LO SPEED	17	.01	510	35 MPH	
						IDLE	13	.01	330	520 RPM	
						2SP IDLE					
						HI IDLE	80	.01	125	2250 RPM	
						LO IDLE	18	.01	86	660 RPM	
						FED 3MOD					
						HI SPEED	8	.01	720	26.1 DYNO HP	
						LO SPEED	17	.01	840	12.4 DYNO HP	
						IDLE - D	130	.60	260		
						IDLE - N	110	.80	81		
	COMMENTS: LIM CAPS OK										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
1	6017	1976	PLYM	DUST	225	1975 FTP	1.07	8.95	463.4	2.21	18.46
						HWY FET	.36	4.12	345.9	2.08	25.10
	IDLE HC,PPM/HEXANE		25.			FED S CY	.52	1.10	362.0	1.54	24.29
	IDLE CO,PCT (MEAS)		.01			NY/NJ	1.19	1.66	512.2	2.28	17.11
	IDLE CO,PCT (SPEC)		.30								
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	8	.01	900	50 MPH	
						LO SPEED	18	.01	740	35 MPH	
						IDLE	18	.01	1100	580 RPM	
						2SP IDLE					
						HI IDLE	23	.02	245	2250 RPM	
						LO IDLE	8	.01	200	760 RPM	
						FED 3MOD					
						HI SPEED	15	.08	1400	20.1 DYNO HP	
						LO SPEED	40	.25	810	17.4 DYNO HP	
						IDLE - D	15	.01	940		
						IDLE - N	10	.01	200		
	COMMENTS: LIM CAPS OK MANIFD VAC DOOR SNSR BYPSD VAC DIAPHRM LEAKS										
2	6017	1976	PLYM	DUST	225	1975 FTP	.94	3.14	457.6	2.57	19.07
						HWY FET	.25	.18	353.4	2.42	25.04
	IDLE HC,PPM/HEXANE		25.			FED S CY	.51	.28	363.6	1.58	24.27
	IDLE CO,PCT (MEAS)		.01			NY/NJ	1.50	1.06	508.3	2.06	17.24
	IDLE CO,PCT (SPEC)		.30								
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	10	.01	850	50 MPH	
						LO SPEED	25	.01	560	35 MPH	
						IDLE	20	.01	770	590 RPM	
						2SP IDLE					
						HI IDLE	70	.01	200	2250 RPM	
						LO IDLE	8	.01	135	770 RPM	
						FED 3MOD					
						HI SPEED	7	.01	1250	26.0 DYNO HP	
						LO SPEED	20	.01	1000	12.0 DYNO HP	
						IDLE - D	13	.01	940		
						IDLE - N	7	.01	215		
	COMMENTS: VAC LINE REROUTED										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
1	6018	1976	PLYM	DUST	225	1975 FTP	2.21	40.11	402.6	2.43	18.78
						HWY FET	.48	2.38	338.9	2.59	25.79
	IDLE HC,PPM/HEXANE 550.					FED S CY	2.68	34.88	309.4	1.67	23.81
	IDLE CO,PCT (MEAS) 5.00					NY/NJ	3.65	69.05	419.5	1.94	16.45
	IDLE CO,PCT (SPEC) .30										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	20	.01	1025	50 MPH	
						LO SPEED	25	.01	960	35 MPH	
						IDLE	340	5.00	51	525 RPM	
						2SP IDLE					
						HI IDLE	30	.01	135	2250 RPM	
						LO IDLE	450	5.00	47	750 RPM	
						FED 3MOD					
						HI SPEED	25	.01	1350	26.0 DYNO HP	
						LO SPEED	30	.01	1000	12.0 DYNO HP	
						IDLE - D	360	5.00	32		
						IDLE - N	550	5.00	40		
	COMMENTS: LIM CPS OK VAC ADVNCE OUT OF SPEC										
3	6018	1976	PLYM	DUST	225	1975 FTP	.67	3.70	419.5	2.38	20.77
						HWY FET	.21	.25	331.8	2.43	26.67
	IDLE HC,PPM/HEXANE 500.					FED S CY	.54	.60	331.4	1.39	26.57
	IDLE CO,PCT (MEAS) .15					NY/NJ	1.95	2.84	453.9	1.71	19.11
	IDLE CO,PCT (SPEC) .30										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	75	.01	1175	50 MPH	
						LO SPEED	75	.01	650	35 MPH	
						IDLE	70	.01	380	520 RPM	
						2SP IDLE					
						HI IDLE	80	.01	150	2250 RPM	
						LO IDLE	70	.01	87	650 RPM	
						FED 3MOD					
						HI SPEED	70	.01	1550	20.1 DYNO HP	
						LO SPEED	75	.01	1100	17.4 DYNO HP	
						IDLE - D	65	.01	300		
						IDLE - N	70	.01	72		
	COMMENTS: ADJUSTED IDLE RPM AND CO										

APPENDIx H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
1	6019	1976	PLYM	VOLA	225	1975 FTP	1.89	32.34	451.8	3.03	17.45
						HWY FET	.49	5.70	411.3	3.50	21.04
	IDLE HC,PPM/HEXANE				275.	FED S CY	2.23	19.03	375.9	1.92	21.50
	IDLE CO,PCT (MEAS)				3.50	NY/NJ	3.76	42.28	477.1	2.18	15.98
	IDLE CO,PCT (SPEC)				.30						
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	26	.02	2200	50	MPH
						LO SPEED	20	.02	720	35	MPH
						IDLE	300	4.30	82	600	RPM
						2SP IDLE					
						HI IDLE	35	.02	220	2250	RPM
						LO IDLE	280	4.00	86	730	RPM
						FED 3MOD					
						HI SPEED	25	.04	2600	26.0	DYNO HP
						LO SPEED	30	.06	1200	12.0	DYNO HP
						IDLE - D	260	5.00	105		
						IDLE - N	280	5.00	105		
COMMENTS: LIM CAPS OK, VAC KICK OUT OF SPEC VAC KICK LINE CRACKED											
2	6019	1976	PLYM	VOLA	225	1975 FTP	1.41	14.03	480.9	2.96	17.49
						HWY FET	.39	3.96	405.9	3.49	21.47
	IDLE HC,PPM/HEXANE				500.	FED S CY	1.31	5.98	381.9	1.72	22.44
	IDLE CO,PCT (MEAS)				.17	NY/NJ	2.97	6.69	496.6	2.31	17.18
	IDLE CO,PCT (SPEC)				.30						
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	25	.03	2150	50	MPH
						LO SPEED	30	.02	700	35	MPH
						IDLE	120	.21	320	520	RPM
						2SP IDLE					
						HI IDLE	45	.02	225	2250	RPM
						LO IDLE	40	.04	90	650	RPM
						FED 3MOD					
						HI SPEED	20	.04	2900	20.6	DYNO HP
						LO SPEED	80	.04	1250	17.5	DYNO HP
						IDLE - D	260	.80	310		
						IDLE - N	320	.50	95		
COMMENTS: VAC KICK ADJUSTED											

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
1	6020	1976	PLYM	VOLA	318	1975 FTP	1.26	7.10	634.7	2.03	13.66
						HWY FET	.28	.39	478.1	2.21	18.51
	IDLE HC,PPM/HEXANE 200.					FED S CY	.95	.52	525.3	1.14	16.77
	IDLE CO,PCT (MEAS) .03					NY/NJ	2.64	2.37	719.2	1.41	12.14
	IDLE CO,PCT (SPEC) .30										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	11	.01	630	50 MPH	
						LO SPEED	25	.01	225	35 MPH	
						IDLE	24	.01	440	550 RPM	
						2SP IDLE					
						HI IDLE	55	.02	115	2250 RPM	
						LO IDLE	35	.02	135	660 RPM	
						FED 3MOD					
						HI SPEED	10	.02	770	31.0 DYNO HP	
						LO SPEED	10	.01	400	15.0 DYNO HP	
						IDLE - D	20	.01	440		
						IDLE - N	75	.02	100		
COMMENTS: LIM CAP OK AIR HORN WARPED											
1	6021	1976	PLYM	VOLA	318	1975 FTP	2.64	37.97	545.9	1.72	14.46
						HWY FET	.45	2.13	433.5	2.03	20.25
	IDLE HC,PPM/HEXANE 330.					FED S CY	2.15	22.78	442.3	1.25	18.30
	IDLE CO,PCT (MEAS) 2.80					NY/NJ	3.78	50.18	600.2	1.66	12.84
	IDLE CO,PCT (SPEC) .30										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	28	.01	600	46 MPH	
						LO SPEED	13	0.00	175	32 MPH	
						IDLE	280	4.00	100	650 RPM	
						2SP IDLE					
						HI IDLE	20	.01	88	2250 RPM	
						LO IDLE	400	3.10	57	900 RPM	
						FED 3MOD					
						HI SPEED	25	.02	720	26.0 DYNO HP	
						LO SPEED	28	.01	245	12.0 DYNO HP	
						IDLE - D	280	4.10	90		
						IDLE - N	400	3.10	54		
COMMENTS: LIM CAP OK, AIR HORN WARPED, CHOKE TIMER ON TOO LONG											

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
3	6021	1976	PLYM	VOLA	318	1975 FTP	1.70	7.58	554.9	1.65	15.51
						HWY FET	.36	.41	434.4	1.87	20.35
	IDLE HC,PPM/HEXANE		450.			FED S CY	1.01	.73	449.9	1.17	19.54
	IDLE CO,PCT (MEAS)		.60			NY/NJ	1.35	1.66	605.6	1.60	14.49
	IDLE CO,PCT (SPEC)		.30								
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	23	.01	480	45	MPH
						LO SPEED	70	.01	150	30	MPH
						IDLE	55	.10	65	600	RPM
						2SP IDLE					
						HI IDLE	50	.02	72	2250	RPM
						LO IDLE	60	.08	45	720	RPM
						FED 3MOD					
						HI SPEED	40	.01	560	17.5	DYNO HP
						LO SPEED	35	.01	175	20.6	DYNO HP
						IDLE - D	40	.08	90		
						IDLE - N	80	.06	44		
COMMENTS: ADJUSTED IDLE RPM AND CO AND KICKDOWN TO MANFG SPEC											
4	6021	1976	PLYM	VOLA	318	1975 FTP	1.42	6.38	555.6	1.83	15.57
						HWY FET	.34	.39	436.7	2.19	20.25
	IDLE HC,PPM/HEXANE		180.			FED S CY	.92	.91	463.4	1.39	18.98
	IDLE CO,PCT (MEAS)		.20			NY/NJ	.65	3.07	593.0	1.87	14.80
	IDLE CO,PCT (SPEC)		.30								
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	18	.01	960	45	MPH
						LO SPEED	55	.01	300	30	MPH
						IDLE	31	.02	260	540	RPM
						2SP IDLE					
						HI IDLE	30	.02	150	2250	RPM
						LO IDLE	35	.04	120	650	RPM
						FED 3MOD					
						HI SPEED	17	.01	1100	26.0	DYNO HP
						LO SPEED	27	.01	400	12.0	DYNO HP
						IDLE - D	31	.02	280		
						IDLE - N	50	.04	100		
COMMENTS: MAJOR TUNE UP, REPLACED CHOKE TIMER											

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
6	6021	1976	PLYM	VOLA	318	1975 FTP	1.40	6.46	537.7	5.70	16.07
						HWY FET	.35	.39	425.4	7.32	20.78
	IDLE HC,PPM/HEXANE			110.		FED S CY	.94	.88	448.5	4.74	19.60
	IDLE CO,PCT (MEAS)			.10		NY/NJ	1.77	2.80	420.3	3.60	20.63
	IDLE CO,PCT (SPEC)			.30							
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	37	.02	3400	46	MPH
						LO SPEED	38	.01	1650	30	MPH
						IDLE	50	.04	200	550	RPM
						2SP IDLE					
						HI IDLE	11	.01	380	2250	RPM
						LO IDLE	50	.05	100	650	RPM
						FED 3MOD					
						HI SPEED	27	.01	3700	26.0	DYNO HP
						LO SPEED	33	.01	2400	12.0	DYNO HP
						IDLE - D	46	.05	205		
						IDLE - N	60	.07	94		
	COMMENTS: EGR VALVE PLUGGED										
7	6021	1976	PLYM	VOLA	318	1975 FTP	2.84	33.11	526.5	1.76	15.11
						HWY FET	.54	1.83	442.9	2.16	19.84
	IDLE HC,PPM/HEXANE			300.		FED S CY	2.31	18.45	444.6	1.25	18.46
	IDLE CO,PCT (MEAS)			3.50		NY/NJ	3.64	41.40	564.4	1.62	13.85
	IDLE CO,PCT (SPEC)			.30							
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	30	.02	800	45	MPH
						LO SPEED	75	.02	230	30	MPH
						IDLE	370	4.80	100	525	RPM
						2SP IDLE					
						HI IDLE	60	.03	140	2250	RPM
						LO IDLE	410	4.30	74	670	RPM
						FED 3MOD					
						HI SPEED	25	.02	1200	26.0	DYNO HP
						LO SPEED	13	0.00	410	12.0	DYNO HP
						IDLE - D	360	4.80	105		
						IDLE - N	400	4.00	74		
	COMMENTS: LEAN BEST IDLE										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
8	6021	1976	PLYM	VOLA	318	1975 FTP	1.64	4.68	547.9	2.39	15.84
						HWY FET	.44	.34	432.0	2.82	20.45
	IDLE HC,PPM/HEXANE			725.		FED S CY	1.31	.66	455.3	1.83	19.28
	IDLE CO,PCT (MEAS)			.40		NY/NJ	2.95	2.91	587.9	2.55	14.75
	IDLE CO,PCT (SPEC)			.30							
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	32	.01	1200	45 MPH	
						LO SPEED	75	.01	340	30 MPH	
						IDLE	42	.03	430	570 RPM	
						2SP IDLE					
						HI IDLE	75	.02	150	2250 RPM	
						LO IDLE	105	.04	150	720 RPM	
						FED 3MOD					
						HI SPEED	28	.01	1500	26.0 DYNO HP	
						LO SPEED	45	.01	500	12.0 DYNO HP	
						IDLE - D	45	.03	440		
						IDLE - N	120	.03	140		
	COMMENTS: TIMING +5										
9	6021	1976	PLYM	VOLA	318	1975 FTP	1.74	16.04	565.1	1.77	14.90
						HWY FET	.35	.36	431.6	2.17	20.48
	IDLE HC,PPM/HEXANE			375.		FED S CY	1.14	.67	452.7	1.41	19.40
	IDLE CO,PCT (MEAS)			.25		NY/NJ	2.20	2.83	473.8	1.56	18.29
	IDLE CO,PCT (SPEC)			.30							
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	24	.02	1000	45 MPH	
						LO SPEED	55	.02	260	30 MPH	
						IDLE	37	.03	260	550 RPM	
						2SP IDLE					
						HI IDLE	45	.02	130	2250 RPM	
						LO IDLE	70	.04	110	700 RPM	
						FED 3MOD					
						HI SPEED	22	.02	1150	26.0 DYNO HP	
						LO SPEED	30	.01	280	12.0 DYNO HP	
						IDLE - D	33	.03	400		
						IDLE - N	80	.03	110		
	COMMENTS: FULL VACUUM ADVANCE TO DISTRIBUTOR										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
1	6022	1976	PLYM	VOLA	225	1975 FTP	1.83	26.14	436.5	3.36	18.36
						HWY FET	.47	2.32	353.1	3.77	24.78
	IDLE HC,PPM/HEXANE		310.			FED S CY	1.76	16.08	355.4	2.32	22.98
	IDLE CO,PCT (MEAS)		3.50			NY/NJ	3.11	33.71	468.3	3.07	16.71
	IDLE CO,PCT (SPEC)		.30								
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	15	.01	2100	45 MPH	
						LO SPEED	10	0.00	720	30 MPH	
						IDLE	50	.45	170	590 RPM	
						2SP IDLE					
						HI IDLE	8	.01	180	2250 RPM	
						LO IDLE	64	.42	760	850 RPM	
						FED 3MOD					
						HI SPEED	36	.01	2700	26.0 DYNO HP	
						LO SPEED	38	0.00	1500	12.0 DYNO HP	
						IDLE - D	58	4.50	140		
						IDLE - N	65	3.50	760		
	COMMENTS: LIMITER CAPS MISSING										
3	6022	1976	PLYM	VOLA	225	1975 FTP	.83	4.59	452.0	3.54	19.22
						HWY FET	.30	.59	354.9	4.06	24.88
	IDLE HC,PPM/HEXANE		15.			FED S CY	.69	.59	361.4	2.28	24.35
	IDLE CO,PCT (MEAS)		.12			NY/NJ	1.88	1.94	475.4	2.59	18.32
	IDLE CO,PCT (SPEC)		.30								
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	39	.01	2300	45 MPH	
						LO SPEED	30	.01	640	30 MPH	
						IDLE	24	.01	280	520 RPM	
						2SP IDLE					
						HI IDLE	60	.01	175	2250 RPM	
						LO IDLE	30	.01	90	650 RPM	
						FED 3MOD					
						HI SPEED	31	.01	2800	26.0 DYNO HP	
						LO SPEED	32	.01	1500	12.0 DYNO HP	
						IDLE - D	23	.01	280		
						IDLE - N	20	.01	90		
	COMMENTS: ADJUSTED IDLE RPM AND CO										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
4	6022	1976	PLYM	VOLA	225	1975 FTP	.94	5.93	454.6	3.54	19.01
						HWY FET	.38	1.00	354.7	3.58	24.83
	IDLE HC,PPM/HEXANE			25.		FED S CY	.65	.96	355.9	2.09	24.69
	IDLE CO,PCT (MEAS)			.01		NY/NJ	2.02	3.11	475.7	2.54	18.23
	IDLE CO,PCT (SPEC)			.30							
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	45	.01	1950	45 MPH	
						LO SPEED	37	0.00	660	30 MPH	
						IDLE	30	.01	380	540 RPM	
						2SP IDLE					
						HI IDLE	75	.01	160	2250 RPM	
						LO IDLE	40	.01	96	660 RPM	
						FED 3MOD					
						HI SPEED	35	.01	2500	26.0 DYNO HP	
						LO SPEED	40	.01	1450	12.0 DYNO HP	
						IDLE - D	25	.01	440		
						IDLE - N	20	.01	110		
COMMENTS: MAJOR TUNE-UP											
1	6023	1976	PLYM	FURY	318	1975 FTP	3.22	52.22	565.1	2.59	13.50
						HWY FET	1.03	6.37	458.0	2.92	18.83
	IDLE HC,PPM/HEXANE			380.		FED S CY	3.06	36.81	469.1	1.69	16.54
	IDLE CO,PCT (MEAS)			5.00		NY/NJ	4.22	77.77	570.2	1.92	12.57
	IDLE CO,PCT (SPEC)			.30							
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	15	.02	830	50 MPH	
						LO SPEED	25	.01	460	35 MPH	
						IDLE	380	5.00	74	750 RPM	
						2SP IDLE					
						HI IDLE	100	.02	135	2250 RPM	
						LO IDLE	380	5.00	77	750 RPM	
						FED 3MOD					
						HI SPEED	20	.02	1000	26.3 DYNO HP	
						LO SPEED	25	.02	750	23.6 DYNO HP	
						IDLE - D	360	5.00	74		
						IDLE - N	430	5.00	65		
COMMENTS: LIM CAPS MSG VACUUM KICK OUT OF SPEC											

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
2	6023	1976	PLYM	FURY	318	1975 FTP	3.30	55.20	571.1	2.57	13.28
						HWY FET	1.40	12.59	452.5	2.60	18.62
	IDLE HC,PPM/HEXANE		73.			FED S CY	5.62	106.03	389.5	.82	15.47
	IDLE CO,PCT (MEAS)		5.00			NY/NJ	5.39	139.98	500.6	1.15	12.03
	IDLE CO,PCT (SPEC)		.30								
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	50	.03	1400	50	MPH
						LO SPEED	65	.03	620	35	MPH
						IDLE	350	5.00	97	580	RPM
						2SP IDLE					
						HI IDLE	60	.05	150	2250	RPM
						LO IDLE	450	5.00	68	725	RPM
						FED 3MOD					
						HI SPEED	35	.03	1500	23.6	DYNO HP
						LO SPEED	60	.04	730	26.3	DYNO HP
						IDLE - D	380	5.00	48		
						IDLE - N	410	5.00	73		
COMMENTS: ADJUSTED VAC KICK											
3	6023	1976	PLYM	FURY	318	1975 FTP	1.25	1.95	620.0	2.53	14.15
						HWY FET	.40	.52	470.7	2.69	18.77
	IDLE HC,PPM/HEXANE		240.			FED S CY	1.24	.51	495.4	1.68	17.74
	IDLE CO,PCT (MEAS)		.18			NY/NJ	2.60	1.71	636.8	1.91	13.70
	IDLE CO,PCT (SPEC)		.30								
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	20	.02	900	50	MPH
						LO SPEED	60	.02	470	35	MPH
						IDLE	80	.02	98	560	RPM
						2SP IDLE					
						HI IDLE	260	.03	140	2250	RPM
						LO IDLE	100	.03	105	700	RPM
						FED 3MOD					
						HI SPEED	15	.02	1000	26.3	DYNO HP
						LO SPEED	30	.02	700	23.6	DYNO HP
						IDLE - D	40	.02	320		
						IDLE - N	70	.02	100		
COMMENTS: ADJUST IDLE RPM AND CO											

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
1	6024	1976	PLYM	FURY	318	1975 FTP	1.25	4.40	638.8	3.20	13.66
						HWY FET	.43	.73	454.6	3.01	19.41
						FED S CY	.81	.77	514.1	2.04	17.14
						NY/NJ	2.37	5.33	691.5	3.09	12.55
	IDLE HC,PPM/HEXANE 200.										
	IDLE CO,PCT (MEAS) .04										
	IDLE CO,PCT (SPEC) .30										
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	50	.02	1550	50 MPH	
						LO SPEED	43	.01	520	35 MPH	
						IDLE	37	.04	430	710 RPM	
						2SP IDLE					
						HI IDLE	128	.02	120	2250 RPM	
						LO IDLE	165	.03	195	1000 RPM	
						FED 3MOD					
						HI SPEED	33	.01	1650	31.0 DYNO HP	
						LO SPEED	30	.01	620	15.0 DYNO HP	
						IDLE - D	45	.04	495		
						IDLE - N	190	.04	200		
	COMMENTS: LIMITER CAPS PRESENT VAC KICK OUT OF SPEC										
2	6024	1976	PLYM	FURY	318	1975 FTP	1.50	8.56	619.8	3.09	13.91
						HWY FET	.46	.68	440.5	2.82	20.04
						FED S CY	1.34	1.15	502.4	2.01	17.46
						NY/NJ	4.48	6.88	664.2	3.45	12.88
	IDLE HC,PPM/HEXANE 300.										
	IDLE CO,PCT (MEAS) .42										
	IDLE CO,PCT (SPEC) .30										
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	50	.03	1500	50 MPH	
						LO SPEED	45	.01	530	35 MPH	
						IDLE	45	.04	450	710 RPM	
						2SP IDLE					
						HI IDLE	100	.02	125	2250 RPM	
						LO IDLE	220	.04	190	870 RPM	
						FED 3MOD					
						HI SPEED	35	.02	1675	31.0 DYNO HP	
						LO SPEED	35	.01	740	15.0 DYNO HP	
						IDLE - D	55	.03	520		
						IDLE - N	260	.03	215		
	COMMENTS: VAC KICK ADJUSTED TO SPEC										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
5	6024	1976	PLYM	FURY	318	1975 FTP	1.63	20.30	606.9	7.01	13.78
						HWY FET	.49	.70	430.9	8.69	20.47
	IDLE HC,PPM/HEXANE		150.			FED S CY	1.28	2.50	493.9	6.61	17.68
	IDLE CO,PCT (MEAS)		.04			NY/NJ	3.27	1.88	653.3	6.91	13.31
	IDLE CO,PCT (SPEC)		.30								
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	40	.16	2600	50 MPH	
						LO SPEED	30	.02	2700	35 MPH	
						IDLE	24	.06	400	730 RPM	
						2SP IDLE					
						HI IDLE	30	.02	370	2250 RPM	
						LO IDLE	100	.04	155	950 RPM	
						FED 3MOD					
						HI SPEED	34	.02	3700	31.0 DYNO HP	
						LO SPEED	33	.01	3100	15.0 DYNO HP	
						IDLE - D	26	.05	440		
						IDLE - N	150	.04	155		
	COMMENTS: CHOKE HEATR DSABLD RICHEN FUEL MXTUR EGR PLUGGED										
6	6024	1976	PLYM	FURY	318	1975 FTP	1.40	4.56	616.0	4.09	14.14
						HWY FET	.50	.41	424.6	2.84	20.79
	IDLE HC,PPM/HEXANE		350.			FED S CY	1.17	.95	459.0	4.09	19.12
	IDLE CO,PCT (MEAS)		.03			NY/NJ	3.39	4.36	612.8	4.93	14.08
	IDLE CO,PCT (SPEC)		.30								
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	26	.01	1800	50 MPH	
						LO SPEED	22	.01	1250	35 MPH	
						IDLE	30	.02	60	630 RPM	
						2SP IDLE					
						HI IDLE	10	.01	150	2250 RPM	
						LO IDLE	10	.01	135	750 RPM	
						FED 3MOD					
						HI SPEED	19	.01	1750	31.0 DYNO HP	
						LO SPEED	22	0.00	1500	15.0 DYNO HP	
						IDLE - D	38	.01	60		
	COMMENTS: EGR PLUGGED					IDLE - N	160	.01	15		

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
7	6024	1976	PLYM	FURY	318	1975 FTP	1.56	1.96	594.9	2.56	14.72
						HWY FET	.53	.43	455.4	2.74	19.39
	IDLE HC,PPM/HEXANE 550.					FED S CY	1.34	.98	483.8	1.66	18.13
	IDLE CO,PCT (MEAS) .03					NY/NJ	3.51	3.52	608.2	2.40	14.20
	IDLE CO,PCT (SPEC) .30										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	28	.01	1400	50 MPH	
						LO SPEED	98	.01	400	30 MPH	
						IDLE	90	.01	250	630 RPM	
						2SP IDLE					
						HI IDLE	280	.01	100	2250 RPM	
						LO IDLE	310	.01	105	750 RPM	
						FED 3MOD					
						HI SPEED	30	.01	1450	31.0 DYNO HP	
						LO SPEED	37	.01	620	15.0 DYNO HP	
						IDLE - D	85	.01	260		
						IDLE - N	300	.01	110		
	COMMENTS: LEAN BEST IDLE										
8	6024	1976	PLYM	FURY	318	1975 FTP	2.89	12.28	581.5	3.32	14.55
						HWY FET	.78	.62	438.6	3.17	20.08
	IDLE HC,PPM/HEXANE 700.					FED S CY	2.80	.43	470.7	1.94	18.48
	IDLE CO,PCT (MEAS) .15					NY/NJ	4.69	1.12	593.7	3.16	14.54
	IDLE CO,PCT (SPEC) .30										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	52	.01	1800	50 MPH	
						LO SPEED	80	.01	580	35 MPH	
						IDLE	550	1.20	160	630 RPM	
						2SP IDLE					
						HI IDLE	500	.02	100	2250 RPM	
						LO IDLE	840	.30	92	750 RPM	
						FED 3MOD					
						HI SPEED	62	.01	2000	31.0 DYNO HP	
						LO SPEED	73	.01	840	15.0 DYNO HP	
						IDLE - D	450	.60	150		
						IDLE - N	700	.40	120		
	COMMENTS: TIMING +6										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
9	6024	1976	PLYM	FURY	318	1975 FTP	2.06	18.66	585.4	2.67	14.29
						HWY FET	.59	.62	438.8	2.73	20.10
	IDLE HC,PPM/HEXANE		90.			FED S CY	1.46	3.02	472.6	1.66	18.41
	IDLE CO,PCT (MEAS)		.50			NY/NJ	3.11	13.96	611.0	2.61	13.81
	IDLE CO,PCT (SPEC)		.30								
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	38	.02	1700	50 MPH	
						LO SPEED	55	.01	400	35 MPH	
						IDLE	190	.48	150	650 RPM	
						2SP IDLE					
						HI IDLE	125	.02	100	2250 RPM	
						LO IDLE	200	.14	90	780 RPM	
						FED 3MOD					
						HI SPEED	32	.01	1500	31.0 DYNO HP	
						LO SPEED	47	.01	700	15.0 DYNO HP	
						IDLE - D	160	.85	230		
						IDLE - N	250	.15	70		
COMMENTS: CHOKE HEATER WIRE DISCONNECTED											
1	6025	1976	PLYM	FURY	360	1975 FTP	2.52	81.17	645.9	2.36	11.36
						HWY FET	.43	8.72	481.8	3.79	17.86
	IDLE HC,PPM/HEXANE		190.			FED S CY	1.87	57.61	514.4	2.95	14.53
	IDLE CO,PCT (MEAS)		4.70			NY/NJ	3.73	120.69	693.0	1.74	9.92
	IDLE CO,PCT (SPEC)		.30								
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	21	.01	2100	50 MPH	
						LO SPEED	19	.02	1600	35 MPH	
						IDLE	135	4.80	70	650 RPM	
						2SP IDLE					
						HI IDLE	15	.12	340	2250 RPM	
						LO IDLE	128	5.00	68	820 RPM	
						FED 3MOD					
						HI SPEED	17	.06	2100	31.0 DYNO HP	
						LO SPEED	17	.01	2350	15.0 DYNO HP	
						IDLE - D	120	4.90	82		
						IDLE - N	135	5.00	70		
COMMENTS: LIM CAPS MISSING											

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
3	6025	1976	PLYM	FURY	360	1975 FTP	.55	4.04	562.5	3.05	15.56
						HWY FET	.12	.59	458.7	4.48	19.30
	IDLE HC,PPM/HEXANE				75.	FED S CY	.26	.22	543.0	3.27	16.31
	IDLE CO,PCT (MEAS)				.02	NY/NJ	.42	.18	765.6	2.51	11.57
	IDLE CO,PCT (SPEC)				.30						
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	26	.01	2300	50 MPH	
						LO SPEED	16	.01	1500	35 MPH	
						IDLE	27	.01	950	630 RPM	
						2SP IDLE					
						HI IDLE	9	.01	250	2250 RPM	
						LO IDLE	30	.01	670	750 RPM	
						FED 3MOD					
						HI SPEED	12	.01	2500	31.0 DYNO HP	
						LO SPEED	9	.01	2000	15.0 DYNO HP	
						IDLE - D	10	.01	105		
						IDLE - N	40	.01	560		
COMMENTS: ADJUSTED IDLE CO											
5	6025	1976	PLYM	FURY	360	1975 FTP	.96	6.87	661.5	6.38	13.14
						HWY FET	.18	.96	476.8	7.26	18.53
	IDLE HC,PPM/HEXANE				50.	FED S CY	.44	.29	544.8	4.94	16.24
	IDLE CO,PCT (MEAS)				.01	NY/NJ	.77	.26	749.6	4.82	11.80
	IDLE CO,PCT (SPEC)				.30						
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	33	.01	4400	50 MPH	
						LO SPEED	23	.01	2700	35 MPH	
						IDLE	18	.01	125	670 RPM	
						2SP IDLE					
						HI IDLE	30	.01	3600	2250 RPM	
						LO IDLE	53	.01	62	800 RPM	
						FED 3MOD					
						HI SPEED	14	.02	4400	31.0 DYNO HP	
						LO SPEED	16	.01	3300	15.0 DYNO HP	
						IDLE - D	10	.02	125		
						IDLE - N	42	.01	69		
COMMENTS: FULL VAC ADVNCE TO DIST CHOKE HTR DSABLED EGR PLUGGED											

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
6	6025	1976	PLYM	FURY	360	1975 FTP	.79	5.60	691.8	4.45	12.62
						HWY FET	.22	.85	604.8	7.36	14.63
						FED S CY	.40	.92	555.5	4.41	15.90
						NY/NJ	.50	.56	750.3	3.15	11.79
	IDLE HC,PPM/HEXANE				20.						
	IDLE CO,PCT (MEAS)				.06						
	IDLE CO,PCT (SPEC)				.30						
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	30	.01	4400	50 MPH	
						LO SPEED	27	.01	2600	35 MPH	
						IDLE	16	.01	70	630 RPM	
						2SP IDLE					
						HI IDLE	50	.01	310	2250 RPM	
						LO IDLE	30	.01	50	720 RPM	
						FED 3MOD					
						HI SPEED	22	.02	4400	31.0 DYNO HP	
						LO SPEED	23	.01	3200	15.0 DYNO HP	
						IDLE - D	14	.01	75		
						IDLE - N	31	.01	50		
	COMMENTS: EGR PLUGGED										
7	6025	1976	PLYM	FURY	360	1975 FTP	1.06	5.10	696.8	2.85	12.53
						HWY FET	.16	.50	478.7	.45	18.49
						FED S CY	.54	.19	469.9	2.25	18.81
						NY/NJ	1.00	.30	720.0	1.87	12.26
	IDLE HC,PPM/HEXANE				110.						
	IDLE CO,PCT (MEAS)				.02						
	IDLE CO,PCT (SPEC)				.30						
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	26	.01	2250	50 MPH	
						LO SPEED	23	.01	1500	35 MPH	
						IDLE	95	0.00	29	550 RPM	
						2SP IDLE					
						HI IDLE	30	.01	320	2250 RPM	
						LO IDLE	65	.01	21	650 RPM	
						FED 3MOD					
						HI SPEED	19	.01	2450	31.0 DYNO HP	
						LO SPEED	17	.01	1850	15.0 DYNO HP	
						IDLE - D	20	.01	49		
						IDLE - N	85	.01	17		
	COMMENTS: LEAN BEST IDLE										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
8	6025	1976	PLYM	FURY	360	1975 FTP	.74	6.97	711.8	2.30	12.24
						HWY FET	.12	1.52	487.8	2.22	18.09
	IDLE HC,PPM/HEXANE 15.					FED S CY	.26	1.71	566.6	1.68	15.57
	IDLE CO,PCT (MEAS) .03					NY/NJ	.31	.77	770.4	1.63	11.49
	IDLE CO,PCT (SPEC) .30						HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	13	.01	1400	50 MPH	
						LO SPEED	7	.01	720	35 MPH	
						IDLE	10	.01	95	660 RPM	
						2SP IDLE					
						HI IDLE	5	.01	230	2250 RPM	
						LO IDLE	11	.04	40	800 RPM	
						FED 3MOD					
						HI SPEED	9	.03	1250	31.0 DYNO HP	
						LO SPEED	7	.01	840	15.0 DYNO HP	
						IDLE - D	8	.01	40		
						IDLE - N	12	.01	38		
	COMMENTS: TIMING +6										
9	6025	1976	PLYM	FURY	360	1975 FTP	1.31	7.43	677.3	4.23	12.80
						HWY FET	.22	1.16	471.4	4.63	18.73
	IDLE HC,PPM/HEXANE 12.					FED S CY	.31	1.43	553.1	3.50	15.95
	IDLE CO,PCT (MEAS) .01					NY/NJ	.54	.78	749.2	3.25	11.80
	IDLE CO,PCT (SPEC) .30						HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	23	.01	2250	45 MPH	
						LO SPEED	22	.01	1750	30 MPH	
						IDLE	13	.01	91	580 RPM	
						2SP IDLE					
						HI IDLE	9	.01	360	2250 RPM	
						LO IDLE	13	.02	65	670 RPM	
						FED 3MOD					
						HI SPEED	17	.03	2500	31.0 DYNO HP	
						LO SPEED	18	.01	2100	15.0 DYNO HP	
						IDLE - D	11	.01	97		
						IDLE - N	12	.01	73		
	COMMENTS: FULL VAC ADVANCE TO DIST										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
1	6026	1976	PLYM	GRNF	400	1975 FTP	1.77	38.71	743.2	1.84	10.96
						HWY FET	.73	6.35	487.0	4.80	17.77
	IDLE HC,PPM/HEXANE		140.			FED S CY	1.45	30.91	661.1	1.01	12.43
	IDLE CO,PCT (MEAS)		.30			NY/NJ	2.31	50.39	817.1	.89	9.82
	IDLE CO,PCT (SPEC)		.10								
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	5	.08	520	50	MPH
						LO SPEED	13	.11	540	35	MPH
						IDLE	75	3.20	78	500	RPM
						2SP IDLE					
						HI IDLE	5	.03	160	2250	RPM
						LO IDLE	80	2.70	70	660	RPM
						FED 3MOD					
						HI SPEED	6	.07	420	31.0	DYNO HP
						LO SPEED	8	.10	350	15.0	DYNO HP
						IDLE - D	76	2.80	77		
						IDLE - N	70	2.70	66		

COMMENTS: LIM CAPS MISSING, CHOKE HTR WIRE TERM BROKEN AT TIMING ELEMENT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
2	6026	1976	PLYM	GRNF	400	1975 FTP	1.75	37.79	736.2	1.69	11.08
						HWY FET	.63	5.97	478.1	4.63	18.13
	IDLE HC,PPM/HEXANE		150.			FED S CY	1.21	25.65	631.1	1.05	13.14
	IDLE CO,PCT (MEAS)		1.85			NY/NJ	2.18	52.37	765.8	.86	10.38
	IDLE CO,PCT (SPEC)		.10								
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	8	.09	125	50	MPH
						LO SPEED	12	.12	500	35	MPH
						IDLE	420	3.30	78	560	RPM
						2SP IDLE					
						HI IDLE	8	.04	110	2250	RPM
						LO IDLE	80	2.65	70	-0	RPM
						FED 3MOD					
						HI SPEED	7	.08	405	31.0	DYNO HP
						LO SPEED	8	.10	300	15.0	DYNO HP
						IDLE - D	84	2.90	82		
						IDLE - N	87	2.60	70		

COMMENTS: RPLD CHOKE HEATER TIMING ELEMENT AND RECONNECTED

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
3	6026	1976	PLYM	GRNF	400	1975 FTP	1.14	12.95	768.7	1.66	11.20
						HWY FET	.59	4.17	480.9	4.32	18.14
	IDLE HC,PPM/HEXANE		120.			FED 5 CY	.86	8.20	665.6	1.02	13.03
	IDLE CO,PCT (MEAS)		.40			NY/NJ	1.70	13.44	869.4	.92	9.91
	IDLE CO,PCT (SPEC)		.10								
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	9	.09	600	50 MPH	
						LO SPEED	24	.12	820	35 MPH	
						IDLE	50	.70	86	580 RPM	
						2SP IDLE					
						HI IDLE	7	.04	100	2250 RPM	
						LO IDLE	50	.60	60	740 RPM	
						FED 3MOD					
						HI SPEED	8	.07	480	26.0 DYNO HP	
						LO SPEED	15	.12	580	23.3 DYNO HP	
						IDLE - D	50	.80	82		
						IDLE - N	47	.62	64		
	COMMENTS: ADJUSTED IDLE CO										
1	6027	1976	PLYM	VOLA	225	1975 FTP	2.20	30.24	434.6	3.78	18.15
						HWY FET	1.05	21.45	335.5	3.01	23.82
	IDLE HC,PPM/HEXANE		140.			FED 5 CY	2.55	41.76	340.3	2.61	21.44
	IDLE CO,PCT (MEAS)		1.60			NY/NJ	3.47	51.84	476.1	3.23	15.61
	IDLE CO,PCT (SPEC)		.30								
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	22	.02	1400	45 MPH	
						LO SPEED	20	.02	820	30 MPH	
						IDLE	60	.75	250	610 RPM	
						2SP IDLE					
						HI IDLE	30	.03	140	2250 RPM	
						LO IDLE	90	1.10	36	850 RPM	
						FED 3MOD					
						HI SPEED	24	.02	1700	26.0 DYNO HP	
						LO SPEED	27	.02	1000	12.0 DYNO HP	
						IDLE - D	75	2.00	130		
						IDLE - N	140	2.30	37		
	COMMENTS: LIMITER CAPS OK										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
3	6027	1976	PLYM	VOLA	225	1975 FTP	1.53	9.80	437.8	3.86	19.38
						HWY FET	.35	2.39	346.9	3.79	25.23
	IDLE HC,PPM/HEXANE		180.			FED S CY	1.96	10.70	348.6	3.27	23.88
	IDLE CO,PCT (MEAS)		.75			NY/NJ	2.56	11.01	457.4	3.47	18.38
	IDLE CO,PCT (SPEC)		.30								
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	40	.01	2400	45 MPH	
						LO SPEED	44	.01	930	30 MPH	
						IDLE	260	1.50	370	550 RPM	
						2SP IDLE					
						HI IDLE	135	.03	230	2250 RPM	
						LO IDLE	75	.12	83	680 RPM	
						FED 3MOD					
						HI SPEED	45	.01	2900	26.0 DYNO HP	
						LO SPEED	48	.01	1600	12.0 DYNO HP	
						IDLE - D	240	2.80	225		
						IDLE - N	250	2.00	86		
	COMMENTS: ADJUSTED IDLE RPM AND CO										
4	6027	1976	PLYM	VOLA	225	1975 FTP	1.14	4.93	436.6	4.21	19.81
						HWY FET	.28	.80	349.3	4.66	25.25
	IDLE HC,PPM/HEXANE		135.			FED S CY	1.43	5.77	347.8	3.38	24.56
	IDLE CO,PCT (MEAS)		.15			NY/NJ	2.13	8.76	469.5	3.81	18.11
	IDLE CO,PCT (SPEC)		.30								
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	32	.01	2450	45 MPH	
						LO SPEED	28	.01	1250	30 MPH	
						IDLE	110	.16	310	530 RPM	
						2SP IDLE					
						HI IDLE	55	.01	250	2250 RPM	
						LO IDLE	37	.08	75	670 RPM	
						FED 3MOD					
						HI SPEED	27	.01	3000	26.0 DYNO HP	
						LO SPEED	29	.01	2000	12.0 DYNO HP	
						IDLE - D	145	.18	380		
						IDLE - N	135	.15	88		
	COMMENTS: MAJOR TUNE-UP										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
1	6028	1976	PLYM	FURY	360	1975 FTP	1.17	31.27	703.4	2.54	11.74
						HWY FET	.17	3.54	427.5	3.58	20.47
	IDLE HC,PPM/HEXANE 50.					FED S CY	.88	23.14	555.1	3.05	14.94
	IDLE CO,PCT (MEAS) 1.90					NY/NJ	1.59	37.97	805.9	1.87	10.19
	IDLE CO,PCT (SPEC) .30										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	19	.01	2100	50 MPH	
						LO SPEED	17	.01	2000	35 MPH	
						IDLE	57	1.90	105	740 RPM	
						2SP IDLE					
						HI IDLE	11	.01	360	2250 RPM	
						LO IDLE	53	2.60	90	1000 RPM	
						FED 3MOD					
						HI SPEED	13	.02	2250	31.0 DYNO HP	
						LO SPEED	13	.01	2300	15.0 DYNO HP	
						IDLE - D	55	1.90	120		
						IDLE - N	57	2.20	92		
	COMMENTS: LIMITER CAPS MISSING, TIMING -3										
2	6028	1976	PLYM	FURY	360	1975 FTP	1.36	41.38	665.6	2.46	12.08
						HWY FET	.24	3.64	458.0	3.96	19.11
	IDLE HC,PPM/HEXANE 95.					FED S CY	1.14	31.15	509.9	3.37	15.78
	IDLE CO,PCT (MEAS) 3.00					NY/NJ	1.83	59.18	729.7	1.42	10.71
	IDLE CO,PCT (SPEC) .30										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	15	.01	2800	50 MPH	
						LO SPEED	12	.01	2850	35 MPH	
						IDLE	80	3.10	87	600 RPM	
						2SP IDLE					
						HI IDLE	8	.01	500	2250 RPM	
						LO IDLE	18	3.10	110	730 RPM	
						FED 3MOD					
						HI SPEED	13	.02	2800	31.0 DYNO HP	
						LO SPEED	12	.01	2800	15.0 DYNO HP	
						IDLE - D	80	2.80	120		
						IDLE - N	95	3.00	90		
	COMMENTS: TIMING ADJUSTED										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
3	6028	1976	PLYM	FURY	360	1975 FTP	.51	4.94	710.6	1.79	12.33
						HWY FET	.15	1.06	450.9	1.71	19.59
	IDLE HC,PPM/HEXANE 15.					FED S CY	.25	.47	562.8	2.69	15.73
	IDLE CO,PCT (MEAS) .01					NY/NJ	.39	.51	798.3	1.64	11.09
	IDLE CO,PCT (SPEC) .30										
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	18	.01	1250	50 MPH	
						LO SPEED	12	.01	820	35 MPH	
						IDLE	8	.01	30	620 RPM	
						2SP IDLE					
						HI IDLE	6	.01	130	2250 RPM	
						LO IDLE	13	.01	20	720 RPM	
						FED 3MOD					
						HI SPEED	10	.01	1200	31.0 DYNO HP	
						LO SPEED	11	.01	810	15.0 DYNO HP	
						IDLE - D	7	.02	50		
						IDLE - N	12	.01	20		
	COMMENTS: ADJUST IDLE RPM AND IDLE CO										
1	6029	1976	PLYM	VOLA	225	1975 FTP	1.18	7.27	499.5	2.69	17.25
						HWY FET	.33	1.07	384.0	2.94	22.95
	IDLE HC,PPM/HEXANE 250.					FED S CY	.59	2.46	351.3	1.37	24.86
	IDLE CO,PCT (MEAS) .32					NY/NJ	2.10	7.21	497.6	1.83	17.22
	IDLE CO,PCT (SPEC) .30										
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	22	.01	1200	45 MPH	
						LO SPEED	28	.01	700	30 MPH	
						IDLE	96	.24	160	580 RPM	
						2SP IDLE					
						HI IDLE	38	.02	165	2250 RPM	
						LO IDLE	41	.02	90	750 RPM	
						FED 3MOD					
						HI SPEED	16	.02	1700	31.0 DYNO HP	
						LO SPEED	23	.01	1300	15.0 DYNO HP	
						IDLE - D	155	.80	225		
						IDLE - N	35	.90	90		
	COMMENTS: LIM CAPS OK										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
1	6030	1976	CHRY	CORD	400	1975 FTP	1.56	49.01	714.0	1.81	11.15
						HWY FET	.31	8.42	485.3	3.38	17.77
						FED S CY	1.22	37.19	559.8	1.69	14.27
						NY/NJ	2.00	53.73	804.4	1.20	9.91
	IDLE HC,PPM/HEXANE 80.										
	IDLE CO,PCT (MEAS) 1.60										
	IDLE CO,PCT (SPEC) .30						HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	12	.01	1750	50 MPH	
						LO SPEED	8	.01	1300	35 MPH	
						IDLE	95	2.50	95	580 RPM	
						2SP IDLE					
						HI IDLE	8	.01	265	2250 RPM	
						LO IDLE	80	2.90	72	750 RPM	
						FED 3MOD					
						HI SPEED	8	.03	1800	31.0 DYNO HP	
						LO SPEED	8	.01	1300	15.0 DYNO HP	
						IDLE - D	90	2.70	99		
						IDLE - N	88	2.60	73		
	COMMENTS: LIMITER CAPS MISSING										
3	6030	1976	CHRY	CORD	400	1975 FTP	1.20	28.53	724.6	1.84	11.48
						HWY FET	.28	6.82	494.0	3.48	17.55
						FED S CY	.92	16.71	558.9	1.94	15.09
						NY/NJ	1.46	17.67	816.8	1.26	10.45
	IDLE HC,PPM/HEXANE 60.										
	IDLE CO,PCT (MEAS) .02										
	IDLE CO,PCT (SPEC) .30						HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	15	.20	1200	50 MPH	
						LO SPEED	12	.01	1175	35 MPH	
						IDLE	10	.01	90	500 RPM	
						2SP IDLE					
						HI IDLE	5	.01	320	2250 RPM	
						LO IDLE	12	.01	62	630 RPM	
						FED 3MOD					
						HI SPEED	10	.13	1300	31.0 DYNO HP	
						LO SPEED	8	.01	1200	15.0 DYNO HP	
						IDLE - D	8	.01	100		
						IDLE - N	10	.01	63		
	COMMENTS: ADJUSTED IDLE CO AND RPM										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
4	6030	1976	CHRY	CORD	400	1975 FTP	1.15	25.86	726.4	1.93	11.52
						HWY FET	.25	6.31	499.2	3.65	17.41
						FED S CY	.79	13.00	566.4	2.05	15.06
						NY/NJ	1.34	14.02	823.2	1.37	10.45
	IDLE HC,PPM/HEXANE				100.						
	IDLE CO,PCT (MEAS)				1.00						
	IDLE CO,PCT (SPEC)				.30						
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	10	.20	1400	50 MPH	
						LO SPEED	7	.01	1200	35 MPH	
						IDLE	85	1.20	92	540 RPM	
						2SP IDLE					
						HI IDLE	8	.01	370	2250 RPM	
						LO IDLE	70	1.25	66	640 RPM	
						FED 3MOD					
						HI SPEED	8	.09	1600	31.0 DYNO HP	
						LO SPEED	8	.01	1200	15.0 DYNO HP	
						IDLE - D	90	1.30	94		
						IDLE - N	90	1.40	67		
	COMMENTS: MAJOR TUNE UP										
A	6030	1976	CHRY	CORD	400	1975 FTP	1.22	24.47	742.6	2.08	11.31
						HWY FET	.23	5.01	499.6	4.21	17.46
						FED S CY	.96	17.41	577.1	2.20	14.61
						NY/NJ	1.70	24.49	846.3	1.49	9.97
	IDLE HC,PPM/HEXANE				80.						
	IDLE CO,PCT (MEAS)				.60						
	IDLE CO,PCT (SPEC)				.30						
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	11	.01	1700	50 MPH	
						LO SPEED	10	.01	1550	35 MPH	
						IDLE	60	1.10	105	560 RPM	
						2SP IDLE					
						HI IDLE	7	.01	380	2250 RPM	
						LO IDLE	50	1.10	74	700 RPM	
						FED 3MOD					
						HI SPEED	9	.01	2000	31.0 DYNO HP	
						LO SPEED	11	.01	1450	15.0 DYNO HP	
						IDLE - D	60	1.25	110		
						IDLE - N	70	1.25	75		
	COMMENTS: REPLACED CARBURETOR										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
8	6030	1976	CHRY	CORD	400	1975 FTP	.67	9.36	745.5	2.07	11.64
						HWY FET	.14	2.61	497.7	3.85	17.67
	IDLE HC,PPM/HEXANE			90.		FED S CY	.21	1.24	585.9	2.48	15.08
	IDLE CO,PCT (MEAS)			.03		NY/NJ	.41	2.40	881.3	1.66	10.01
	IDLE CO,PCT (SPEC)			.30							
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	7	.04	1500	50 MPH	
						LO SPEED	7	0.00	1400	35 MPH	
						IDLE	5	0.00	125	500 RPM	
						2SP IDLE					
						HI IDLE	4	0.00	370	2250 RPM	
						LO IDLE	7	0.00	74	610 RPM	
						FED 3MOD					
						HI SPEED	6	.01	1800	31.0 DYNO HP	
						LO SPEED	6	0.00	1450	15.0 DYNO HP	
						IDLE - D	5	0.00	120		
						IDLE - N	8	0.00	70		
	COMMENTS: REPLACED CANISTER FILTER										
1	6031	1976	CHRY	CORD	360	1975 FTP	.56	5.50	646.3	4.49	13.51
						HWY FET	.14	1.55	432.6	6.88	20.38
	IDLE HC,PPM/HEXANE			11.		FED S CY	.32	3.83	564.5	4.09	15.53
	IDLE CO,PCT (MEAS)			.01		NY/NJ	.36	1.69	793.8	3.53	11.13
	IDLE CO,PCT (SPEC)			.30							
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	14	0.00	2750	50 MPH	
						LO SPEED	15	0.00	1650	35 MPH	
						IDLE	7	0.00	140	710 RPM	
						2SP IDLE					
						HI IDLE	7	0.00	230	2250 RPM	
						LO IDLE	13	.01	82	1300 RPM	
						FED 3MOD					
						HI SPEED	11	0.00	4000	31.0 DYNO HP	
						LO SPEED	13	0.00	2020	15.0 DYNO HP	
						IDLE - D	6	.01	130		
						IDLE - N	8	.01	78		
	COMMENTS: LIM CAPS MISSING, OSAC VALV BYPASSD, NIPL ON OSAC BRKN, EGR LIN PL										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
2	6031	1976	CHRY	CORD	360	1975 FTP	.49	6.28	655.7	2.76	13.30
						HWY FET	.13	1.57	427.1	4.04	20.64
	IDLE HC,PPM/HEXANE		12.			FED S CY	.34	5.06	559.1	2.81	15.62
	IDLE CO,PCT (MEAS)		.02			NY/NJ	.29	1.60	790.7	2.26	11.18
	IDLE CO,PCT (SPEC)		.30								
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	10	.01	2050	50 MPH	
						LO SPEED	9	.01	1300	35 MPH	
						IDLE	7	.01	120	690 RPM	
						2SP IDLE					
						HI IDLE	7	.01	200	2250 RPM	
						LO IDLE	7	.02	76	1250 RPM	
						FED 3MOD					
						HI SPEED	8	.01	2300	31.0 DYNO HP	
						LO SPEED	10	.01	1700	15.0 DYNO HP	
						IDLE - D	23	.02	70		
						IDLE - N	20	.04	50		

COMMENTS: INSTLD NEW OASC VALV AND RECCONNECTED LINES EGR VALVE RECONNECTED

1	6032	1976	CHRY	NEWP	400	1975 FTP	.91	4.55	812.1	2.02	10.79
						HWY FET	.67	2.78	490.7	6.13	17.85
	IDLE HC,PPM/HEXANE		350.			FED S CY	.72	3.35	695.3	1.24	12.63
	IDLE CO,PCT (MEAS)		.65			NY/NJ	1.18	4.86	929.4	1.20	9.43
	IDLE CO,PCT (SPEC)		.10								
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	7	.06	720	50 MPH	
						LO SPEED	17	.09	660	35 MPH	
						IDLE	20	.09	70	900 RPM	
						2SP IDLE					
						HI IDLE	10	.03	150	2250 RPM	
						LO IDLE	20	.08	60	906 RPM	
						FED 3MOD					
						HI SPEED	10	.08	980	29.5 DYNO HP	
						LO SPEED	25	.09	1550	28.2 DYNO HP	
						IDLE - D	12	.09	125		
						IDLE - N	18	.09	60		

COMMENTS: LIM CAPS OK. HTED AIR INLET SW OUT OF SPEC. CHOKE KICK MALADJUSTED

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
1	5033	1975	CHRY	NEWY	440	1975 FTP	1.48	57.16	793.9	2.17	9.99
						HWY FET	.17	3.56	580.9	3.21	15.12
	IDLE HC,PPM/HEXANE 220.					FED S CY	1.28	41.85	591.4	2.66	13.42
	IDLE CO,PCT (MEAS) 3.40					NY/NJ	3.51	75.15	97.1	1.16	39.22
	IDLE CO,PCT (SPEC) .30										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	10	.01	990	50 MPH	
						LO SPEED	10	.01	1400	35 MPH	
						IDLE	50	1.30	74	700 RPM	
						2SP IDLE					
						HI IDLE	10	.01	350	2250 RPM	
						LO IDLE	135	4.25	62	625 RPM	
						FED 3MOD					
						HI SPEED	15	.01	1060	36.0 DYNO HP	
						LO SPEED	15	.01	1400	18.0 DYNO HP	
						IDLE - D	125	4.40	68		
						IDLE - N	140	4.40	72		
COMMENTS: LIM CAPS MISSING, EVAP HOSE FROM TANK TO CANSTR PINCHED											
3	5033	1975	CHRY	NEWY	440	1975 FTP	1.03	27.54	854.2	2.32	9.85
						HWY FET	.11	2.10	600.9	3.25	14.68
	IDLE HC,PPM/HEXANE 105.					FED S CY	.67	17.60	666.8	2.75	12.74
	IDLE CO,PCT (MEAS) .80					NY/NJ	1.46	21.01	870.6	1.63	9.77
	IDLE CO,PCT (SPEC) .30										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	7	.01	900	50 MPH	
						LO SPEED	8	.01	1350	35 MPH	
						IDLE	70	1.10	160	720 RPM	
						2SP IDLE					
						HI IDLE	10	.01	260	2250 RPM	
						LO IDLE	65	1.20	44	760 RPM	
						FED 3MOD					
						HI SPEED	10	.01	950	29.5 DYNO HP	
						LO SPEED	10	.01	1250	28.2 DYNO HP	
						IDLE - D	60	1.50	90		
						IDLE - N	70	1.30	70		
COMMENTS: RPLD CANSTR HOSE, IDLE MIXTURE ADJUSTED											

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
4	5033	1975	CHRY	NEWY	440	1975 FTP	.61	10.55	854.7	2.57	10.16
						HWY FET	.09	1.22	591.4	3.41	14.95
	IDLE HC,PPM/HEXANE 90.					FED S CY	.45	8.89	671.9	2.88	12.91
	IDLE CO,PCT (MEAS) .40					NY/NJ	1.09	11.76	906.7	1.57	9.56
	IDLE CO,PCT (SPEC) .30						HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	7	.01	1175	50 MPH	
						LO SPEED	7	.01	1500	35 MPH	
						IDLE	50	.70	60	580 RPM	
						2SP IDLE					
						HI IDLE	5	.01	330	2250 RPM	
						LO IDLE	30	.50	55	680 RPM	
						FED 3MOD					
						HI SPEED	5	.01	1125	29.5 DYNO HP	
						LO SPEED	6	.01	1350	28.2 DYNO HP	
						IDLE - D	50	1.10	98		
						IDLE - N	55	.90	67		
COMMENTS: MAJOR TUNE-UP, REPLACED RADIATOR CAP											
1	6034	1976	FORD	PINT	140	1975 FTP	.71	3.38	386.2	1.78	22.54
						HWY FET	.16	.32	270.6	2.91	32.68
	IDLE HC,PPM/HEXANE 15.					FED S CY	.29	1.62	304.6	1.60	28.81
	IDLE CO,PCT (MEAS) 0.00					NY/NJ	.47	2.58	433.3	1.68	20.23
	IDLE CO,PCT (SPEC) 99.99						HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	32	0.00	1150	38 MPH	
						LO SPEED	23	0.00	440	25 MPH	
						IDLE	13	0.00	29	720 RPM	
						2SP IDLE					
						HI IDLE	8	0.00	120	2250 RPM	
						LO IDLE	13	0.00	27	720 RPM	
						FED 3MOD					
						HI SPEED	32	0.00	550	21.0 DYNO HP	
						LO SPEED	27	0.00	420	9.0 DYNO HP	
						IDLE - D	13	0.00	30		
						IDLE - N	-0	0.00	-0		
COMMENTS: LIMTER CAPS OK, INIT TIMING -4 DEG											

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	---- EMISSION RESULTS (GMS/MI) ---- HC	CO	CO2	NOXC	FUEL ECON (MPG)
2	6034	1976	FORD	PINT	140	1975 FTP	.81	3.12	385.4	2.96	22.59
						HWY FET	.22	.29	272.2	4.39	32.47
	IDLE HC,PPM/HEXANE 11.					FED S CY	.30	1.14	289.4	2.30	30.39
	IDLE CO,PCT (MEAS) .01					NY/NJ	.61	3.71	435.1	2.66	20.04
	IDLE CO,PCT (SPEC) 99.99										
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	43	0.00	2000	38 MPH	
						LO SPEED	26	.01	640	25 MPH	
						IDLE	9	0.00	43	790 RPM	
						2SP IDLE					
						HI IDLE	10	.01	200	2250 RPM	
						LO IDLE	8	0.00	34	790 RPM	
						FED 3MOD					
						HI SPEED	32	.01	2050	21.0 DYNO HP	
						LO SPEED	27	.01	1200	9.0 DYNO HP	
						IDLE - D	8	0.00	43		
						IDLE - N	-0	0.00	-0		
	COMMENTS: TIMING ADJUSTED										
1	6035	1976	FORD	MUST	171	1975 FTP	.93	4.44	512.7	2.20	16.98
						HWY FET	.49	1.40	369.6	2.16	23.78
	IDLE HC,PPM/HEXANE 35.					FED S CY	1.03	5.62	391.3	1.87	22.00
	IDLE CO,PCT (MEAS) .01					NY/NJ	2.46	34.35	519.2	2.06	15.28
	IDLE CO,PCT (SPEC) 99.99										
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	25	.10	1200	45 MPH	
						LO SPEED	63	.02	1000	30 MPH	
						IDLE	32	0.00	35	700 RPM	
						2SP IDLE					
						HI IDLE	23	.03	95	2250 RPM	
						LO IDLE	30	0.00	42	900 RPM	
						FED 3MOD					
						HI SPEED	60	.12	1800	26.0 DYNO HP	
						LO SPEED	57	.04	760	12.0 DYNO HP	
						IDLE - D	30	0.00	87		
						IDLE - N	24	0.00	50		
	COMMENTS: LIMITER CAPS OK										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	---- EMISSION RESULTS (GMS/MI) ---- HC	CO	CO2	NOXC	FUEL ECON (MPG)
5	6035	1976	FORD	MUST	171	1975 FTP	1.06	4.43	537.6	5.46	16.20
						HWY FET	.53	1.67	407.6	6.76	21.55
	IDLE HC,PPM/HEXANE 25.					FED S CY	1.12	6.16	418.4	4.62	20.56
	IDLE CO,PCT (MEAS) .02					NY/NJ	2.95	39.55	541.1	5.53	14.49
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	60	3.12	3400	45	MPH
						LO SPEED	55	.03	1950	30	MPH
						IDLE	27	.02	85	590	RPM
						2SP IDLE					
						HI IDLE	20	.05	450	2250	RPM
						LO IDLE	25	.02	48	780	RPM
						FED 3MOD					
						HI SPEED	52	.12	3600	26.0	DYNO HP
						LO SPEED	50	.04	2500	12.0	DYNO HP
						IDLE - D	26	.02	94		
						IDLE - N	22	.01	60		
COMMENTS: PLUGGED EGR, FULL VAC ADVNCE +5DEG INT TIM CHOKE 3 NTCHS RICHER											
6	6035	1976	FORD	MUST	171	1975 FTP	.95	4.44	498.4	2.71	17.46
						HWY FET	.50	1.14	362.1	2.56	24.28
	IDLE HC,PPM/HEXANE 40.					FED S CY	.94	4.31	397.4	2.28	21.80
	IDLE CO,PCT (MEAS) .01					NY/NJ	2.66	36.58	502.9	2.57	15.60
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	67	.09	1700	45	MPH
						LO SPEED	47	.02	950	30	MPH
						IDLE	23	.01	60	750	RPM
						2SP IDLE					
						HI IDLE	15	.03	99	2250	RPM
						LO IDLE	40	.01	28	1000	RPM
						FED 3MOD					
						HI SPEED	57	.10	2000	26.0	DYNO HP
						LO SPEED	53	.03	940	12.0	DYNO HP
						IDLE - D	25	.01	62		
						IDLE - N	20	.01	40		
COMMENTS: INITIAL TIMING +5 DEG											

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
7	6035	1976	FORD	MUST	171	1975 FTP	.90	3.65	517.4	4.30	16.87
						HWY FET	.45	1.53	377.9	5.30	23.25
	IDLE HC,PPM/HEXANE 25.					FED S CY	1.10	7.31	409.1	3.51	20.93
	IDLE CO,PCT (MEAS) .38					NY/NJ	2.51	45.01	487.8	3.57	15.67
	IDLE CO,PCT (SPEC) 99.99										
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	47	.11	2700	45 MPH	
						LO SPEED	40	.02	1400	30 MPH	
						IDLE	22	.01	62	620 RPM	
						2SP IDLE					
						HI IDLE	17	.03	330	2250 RPM	
						LO IDLE	24	.01	55	620 RPM	
						FED 3MOD					
						HI SPEED	47	.12	2900	26.0 DYNO HP	
						LO SPEED	45	.03	1900	12.0 DYNO HP	
						IDLE - D	19	.01	69		
						IDLE - N	17	.01	45		
	COMMENTS: PLUGGED EGR VALVE										
8	6035	1976	FORD	MUST	171	1975 FTP	.95	5.96	500.8	2.12	17.30
						HWY FET	.47	1.55	372.7	2.04	23.56
	IDLE HC,PPM/HEXANE 38.					FED S CY	.76	2.28	403.5	1.89	21.67
	IDLE CO,PCT (MEAS) .01					NY/NJ	2.21	32.79	515.4	2.05	15.46
	IDLE CO,PCT (SPEC) 99.99										
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	77	.10	1500	45 MPH	
						LO SPEED	62	.03	860	30 MPH	
						IDLE	33	.01	58	640 RPM	
						2SP IDLE					
						HI IDLE	35	.05	180	2250 RPM	
						LO IDLE	38	.01	41	775 RPM	
						FED 3MOD					
						HI SPEED	60	.12	1600	26.0 DYNO HP	
						LO SPEED	50	.04	700	12.0 DYNO HP	
						IDLE - D	28	.01	60		
						IDLE - N	23	.01	42		
	COMMENTS: CHOKE 3 NOTCHES RICHER										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
9	6035	1976	FORD	MUST	171	1975 FTP	.99	11.31	503.4	2.01	16.93
						HWY FET	.44	1.29	368.9	2.13	23.84
	IDLE HC,PPM/HEXANE 210.					FED S CY	.95	5.38	395.1	1.98	21.83
	IDLE CO,PCT (MEAS) 4.30					NY/NJ	2.23	35.76	514.0	2.16	15.37
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	58	.10	1200	45 MPH	
						LO SPEED	42	.02	840	30 MPH	
						IDLE	22	0.00	44	630 RPM	
						2SP IDLE					
						HI IDLE	13	.03	205	2250 RPM	
						LO IDLE	21	0.00	34	780 RPM	
						FED 3MOD					
						HI SPEED	47	.11	1700	26.0 DYNO HP	
						LO SPEED	45	.03	720	12.0 DYNO HP	
						IDLE - D	18	0.00	56		
						IDLE - N	190	4.30	11		
	COMMENTS: ELEC CHOKE DISCONNECTED										
1	6036	1976	FORD	MUST	140	1975 FTP	.41	1.16	430.8	1.80	20.45
						HWY FET	.21	.17	314.5	2.41	28.13
	IDLE HC,PPM/HEXANE 10.					FED S CY	.31	.40	357.3	1.20	24.73
	IDLE CO,PCT (MEAS) .01					NY/NJ	.45	.22	505.7	2.23	17.49
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	37	.01	880	38 MPH	
						LO SPEED	30	.01	690	25 MPH	
						IDLE	15	.01	35	750 RPM	
						2SP IDLE					
						HI IDLE	8	.01	125	2250 RPM	
						LO IDLE	10	0.00	28	1050 RPM	
						FED 3MOD					
						HI SPEED	18	.01	1700	26.0 DYNO HP	
						LO SPEED	26	.01	870	12.0 DYNO HP	
						IDLE - D	11	.01	40		
						IDLE - N	7	.01	30		
	COMMENTS: LIM CAPS OK										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
1	6037	1976	FORD	MUST	140	1975 FTP	.57	2.27	481.3	1.12	18.24
						HWY FET	.18	.30	330.1	1.65	26.81
	IDLE HC,PPM/HEXANE 10.					FED S CY	.31	.29	372.5	.74	23.73
	IDLE CO,PCT (MEAS) .01					NY/NJ	.35	.51	529.6	1.19	16.70
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	20	.01	600	38 MPH	
						LO SPEED	30	.01	250	25 MPH	
						IDLE	8	.01	46	620 RPM	
						2SP IDLE					
						HI IDLE	13	.01	62	2250 RPM	
						LO IDLE	8	.01	38	820 RPM	
						FED 3MOD					
						HI SPEED	8	.02	1175	26.0 DYNO HP	
						LO SPEED	20	.01	480	12.0 DYNO HP	
						IDLE - D	7	.01	48		
						IDLE - N	5	.01	40		
	COMMENTS: LIMTR CAPS OK, TIMING -6 DEG										
2	6037	1976	FORD	MUST	140	1975 FTP	.56	1.40	441.8	1.60	19.91
						HWY FET	.26	.21	310.5	2.28	28.48
	IDLE HC,PPM/HEXANE 10.					FED S CY	.41	.32	349.2	1.03	25.29
	IDLE CO,PCT (MEAS) 0.00					NY/NJ	.53	.35	511.7	1.67	17.27
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	43	.01	600	38 MPH	
						LO SPEED	45	.01	480	25 MPH	
						IDLE	15	0.00	34	440 RPM	
						2SP IDLE					
						HI IDLE	23	.01	160	2250 RPM	
						LO IDLE	10	0.00	28	610 RPM	
						FED 3MOD					
						HI SPEED	23	.02	1800	26.0 DYNO HP	
						LO SPEED	38	.01	800	12.0 DYNO HP	
						IDLE - D	9	0.00	39		
						IDLE - N	8	0.00	29		
	COMMENTS: TIMING ADJUSTED										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
1	6038	1976	FORD	MUST	171	1975 FTP	.89	7.52	490.3	2.10	17.58
						HWY FET	.42	1.81	366.8	1.99	23.92
	IDLE HC,PPM/HEXANE 20.					FED S CY	1.01	9.77	388.4	1.85	21.81
	IDLE CO,PCT (MEAS) .01					NY/NJ	2.65	46.64	485.7	1.95	15.64
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	50	.03	630	38 MPH	
						LO SPEED	35	.01	260	25 MPH	
						IDLE	700	.01	52	18 RPM	
						2SP IDLE					
						HI IDLE	155	4.70	115	2250 RPM	
						LO IDLE	50	3.90	66	850 RPM	
						FED 3MOD					
						HI SPEED	60	.09	1675	26.0 DYNO HP	
						LO SPEED	42	.04	750	12.0 DYNO HP	
						IDLE - D	25	.01	48		
						IDLE - N	17	.01	34		
	COMMENTS: LIMITER CAPS OK										
1	6039	1976	FORD	GRAN	250	1975 FTP	.67	1.11	554.4	1.97	15.90
						HWY FET	.28	.14	414.2	1.68	21.37
	IDLE HC,PPM/HEXANE 20.					FED S CY	.35	.51	268.1	.95	32.87
	IDLE CO,PCT (MEAS) .01					NY/NJ	1.73	13.02	573.4	2.79	14.81
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	30	.01	880	45 MPH	
						LO SPEED	27	.01	240	30 MPH	
						IDLE	22	.01	440	500 RPM	
						2SP IDLE					
						HI IDLE	17	.01	55	2250 RPM	
						LO IDLE	20	.01	54	800 RPM	
						FED 3MOD					
						HI SPEED	17	.01	980	26.0 DYNO HP	
						LO SPEED	25	.01	400	12.0 DYNO HP	
						IDLE - D	17	.01	520		
						IDLE - N	18	.01	55		
	COMMENTS: LIMITER CAPS OK										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
1	6040	1976	FORD	GRAN	250	1975 FTP	.64	1.86	578.7	1.69	15.21
						HWY FET	.18	.08	437.4	1.59	20.26
	IDLE HC,PPM/HEXANE 15.					FED S CY	.63	1.86	447.8	1.34	19.61
	IDLE CO,PCT (MEAS) .01					NY/NJ	1.76	13.31	578.2	2.60	14.68
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	22	.01	680	45 MPH	
						LO SPEED	22	.01	115	30 MPH	
						IDLE	20	.01	120	520 RPM	
						2SP IDLE					
						HI IDLE	26	.01	38	2250 RPM	
						LO IDLE	27	.01	22	83 RPM	
						FED 3MOD					
						HI SPEED	12	.01	750	26.0 DYNO HP	
						LO SPEED	18	.01	280	12.0 DYNO HP	
						IDLE - D	18	0.00	150		
						IDLE - N	15	0.00	28		
	COMMENTS: LIMITER CAPS MISSING										
5	6040	1976	FORD	GRAN	250	1975 FTP	.68	5.21	583.0	6.00	14.96
						HWY FET	.24	.13	455.7	6.72	19.44
	IDLE HC,PPM/HEXANE 10.					FED S CY	.37	.05	437.6	6.70	20.23
	IDLE CO,PCT (MEAS) .01					NY/NJ	1.08	2.80	576.1	6.71	15.20
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	32	0.00	2600	45 MPH	
						LO SPEED	22	0.00	1300	30 MPH	
						IDLE	18	0.00	96	450 RPM	
						2SP IDLE					
						HI IDLE	14	0.00	440	2250 RPM	
						LO IDLE	28	0.00	33	720 RPM	
						FED 3MOD					
						HI SPEED	20	0.00	2700	31.0 DYNO HP	
						LO SPEED	22	0.00	1600	15.0 DYNO HP	
						IDLE - D	12	0.00	97		
						IDLE - N	12	0.00	42		
	COMMENTS: EGR PLUGGED, CHOKE 3 NOTCHES RICHER, TIMING +5										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
6	6040	1976	FORD	GRAN	250	1975 FTP	.61	1.92	575.5	1.73	15.29
						HWY FET	.21	.10	431.7	1.50	20.52
	IDLE HC,PPM/HEXANE 9.					FED S CY	.41	.03	440.0	1.92	20.11
	IDLE CO,PCT (MEAS) 0.00					NY/NJ	2.16	35.74	539.2	2.07	14.74
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	26	0.00	720	45 MPH	
						LO SPEED	17	0.00	150	30 MPH	
						IDLE	16	0.00	57	460 RPM	
						2SP IDLE					
						HI IDLE	13	0.00	48	2250 RPM	
						LO IDLE	17	0.00	15	720 RPM	
						FED 3MOD					
						HI SPEED	13	0.00	858	26.0 DYNO HP	
						LO SPEED	18	0.00	250	12.0 DYNO HP	
						IDLE - D	13	0.00	66		
						IDLE - N	9	0.00	22		
	COMMENTS: INITIAL TIMING +5 DEG										
7	6040	1976	FORD	GRAN	250	1975 FTP	.59	2.90	554.2	5.83	15.83
						HWY FET	.17	.06	420.6	7.44	21.07
	IDLE HC,PPM/HEXANE 10.					FED S CY	.35	.03	419.4	6.41	21.10
	IDLE CO,PCT (MEAS) .01					NY/NJ	.40	.26	583.1	6.68	15.18
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	20	.01	2800	45 MPH	
						LO SPEED	15	.01	1250	30 MPH	
						IDLE	12	.01	56	450 RPM	
						2SP IDLE					
						HI IDLE	7	.01	390	2250 RPM	
						LO IDLE	23	.01	20	680 RPM	
						FED 3MOD					
						HI SPEED	15	.01	2800	26.0 DYNO HP	
						LO SPEED	12	.01	1675	12.0 DYNO HP	
						IDLE - D	11	.01	65		
						IDLE - N	7	.01	40		
	COMMENTS: EGR PLUGGED										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	---- EMISSION RESULTS (GMS/MI) ---- HC	CO	CO2	NOXC	FUEL ECON (MPG)
8	6040	1976	FORD	GRAN	250	1975 FTP	.86	4.05	568.7	1.65	15.36
						HWY FET	.14	.06	373.9	1.53	23.71
	IDLE HC,PPM/HEXANE 10.					FED S CY	.39	.03	429.7	1.76	20.59
	IDLE CO,PCT (MEAS) 0.00					NY/NJ	1.81	24.54	545.4	1.94	15.05
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	13	.01	800	45	MPH
						LO SPEED	13	0.00	150	30	MPH
						IDLE	13	0.00	62	470	RPM
						2SP IDLE					
						HI IDLE	9	0.00	54	2250	RPM
						LO IDLE	25	0.00	19	720	RPM
						FED 3MOD					
						HI SPEED	7	0.00	780	26.0	DYNO HP
						LO SPEED	10	0.00	300	12.0	DYNO HP
						IDLE - D	17	0.00	62		
						IDLE - N	8	0.00	24		
	COMMENTS: RICHEN CHOKE 3 NOTCHES										
9	6040	1976	FORD	GRAN	250	1975 FTP	.74	5.19	584.9	1.56	14.91
						HWY FET	.17	.06	424.6	1.42	20.87
	IDLE HC,PPM/HEXANE 10.					FED S CY	.38	.04	438.3	1.51	20.19
	IDLE CO,PCT (MEAS) 0.00					NY/NJ	1.47	21.86	554.9	1.80	14.94
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	21	0.00	660	50	MPH
						LO SPEED	18	0.00	130	35	MPH
						IDLE	16	0.00	50	460	RPM
						2SP IDLE					
						HI IDLE	11	0.00	72	2250	RPM
						LO IDLE	22	0.00	21	700	RPM
						FED 3MOD					
						HI SPEED	11	0.00	780	26.0	DYNO HP
						LO SPEED	23	0.00	260	12.0	DYNO HP
						IDLE - D	20	0.00	56		
						IDLE - N	10	0.00	62		
	COMMENTS: DISABLE CHOKE HEATER										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	---- EMISSION RESULTS (GMS/MI) ---- HC	CO	CO2	NOXC	FUEL ECON (MPG)
1	6041	1976	FORD	MAVE	200	1975 FTP	.64	2.67	487.5	2.80	17.98
						HWY FET	.25	.05	349.5	1.79	25.33
	IDLE HC,PPM/HEXANE 110.					FED S CY	.34	.24	384.1	2.46	23.02
	IDLE CO,PCT (MEAS) .10					NY/NJ	1.48	6.79	562.1	3.30	15.37
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	42	0.00	1450	38	MPH
						LO SPEED	33	0.00	1150	25	MPH
						IDLE	28	0.00	560	580	RPM
						2SP IDLE					
						HI IDLE	45	0.00	58	2250	RPM
						LO IDLE	27	0.00	75	975	RPM
						FED 3MOD					
						HI SPEED	29	.01	1250	26.0	DYNO HP
						LO SPEED	27	0.00	580	12.0	DYNO HP
						IDLE - D	18	0.00	660		
						IDLE - N	20	0.00	85		
COMMENTS: LIM CAPS OK, COLD WEATHER MODULATOR BRKN											
1	6042	1976	FORD	MAVE	250	1975 FTP	.61	1.83	540.3	1.15	16.28
						HWY FET	.26	.11	403.1	.90	21.96
	IDLE HC,PPM/HEXANE 7.					FED S CY	.60	3.00	431.8	1.04	20.24
	IDLE CO,PCT (MEAS) .01					NY/NJ	2.10	39.15	566.4	1.39	13.99
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	8	.01	100	38	MPH
						LO SPEED	7	.01	620	25	MPH
						IDLE	7	.01	88	540	RPM
						2SP IDLE					
						HI IDLE	7	.01	23	2250	RPM
						LO IDLE	7	.01	18	860	RPM
						FED 3MOD					
						HI SPEED	7	.01	590	26.0	DYNO HP
						LO SPEED	7	.01	170	12.0	DYNO HP
						IDLE - D	5	.01	110		
						IDLE - N	6	.01	30		
COMMENTS: LIMITER CAPS OK											

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
1	6043	1976	FORD	GRAN	250	1975 FTP	.62	.80	602.3	2.12	14.66
						HWY FET	.20	.09	454.8	1.82	19.48
	IDLE HC,PPM/HEXANE 250.					FED S CY	.52	.88	455.3	1.52	19.37
	IDLE CO,PCT (MEAS) 1.50					NY/NJ	1.71	13.74	603.0	2.43	14.09
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	17	.01	740	45 MPH	
						LO SPEED	18	0.00	170	30 MPH	
						IDLE	12	0.00	260	530 RPM	
						2SP IDLE					
						HI IDLE	12	0.00	56	2250 RPM	
						LO IDLE	17	0.00	36	840 RPM	
						FED 3MOD					
						HI SPEED	8	.01	840	26.0 DYNO HP	
						LO SPEED	16	0.00	340	12.0 DYNO HP	
						IDLE - D	9	0.00	360		
						IDLE - N	13	0.00	48		
	COMMENTS: LIMITER CAPS OK										
1	6044	1976	FORD	GRAN	302	1975 FTP	1.33	5.16	607.1	3.34	14.33
						HWY FET	.54	.58	433.3	2.34	20.36
	IDLE HC,PPM/HEXANE 40.					FED S CY	.81	.24	494.0	3.12	17.86
	IDLE CO,PCT (MEAS) 0.00					NY/NJ	1.20	.30	692.4	4.46	12.74
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	85	.01	900	45 MPH	
						LO SPEED	75	.01	640	30 MPH	
						IDLE	60	0.00	840	630 RPM	
						2SP IDLE					
						HI IDLE	130	.01	170	2250 RPM	
						LO IDLE	55	0.00	280	1050 RPM	
						FED 3MOD					
						HI SPEED	55	.01	900	26.0 DYNO HP	
						LO SPEED	57	.01	780	12.0 DYNO HP	
						IDLE - D	40	0.00	910		
						IDLE - N	35	0.00	300		
	COMMENTS: LIMITER CAPS OK										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
3	6044	1976	FORD	GRAN	302	1975 FTP	1.41	1.89	566.3	3.10	15.47
						HWY FET	.52	.29	413.7	2.21	21.35
	IDLE HC,PPM/HEXANE 17.					FED S CY	1.22	.14	447.2	2.44	19.67
	IDLE CO,PCT (MEAS) 0.00					NY/NJ	1.66	.18	625.8	3.13	14.06
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	70	.01	820	45 MPH	
						LO SPEED	75	.01	570	30 MPH	
						IDLE	45	0.00	610	580 RPM	
						2SP IDLE					
						HI IDLE	125	.01	160	2250 RPM	
						LO IDLE	125	.01	200	820 RPM	
						FED 3MOD					
						HI SPEED	52	.01	800	26.0 DYNO HP	
						LO SPEED	50	.01	710	12.0 DYNO HP	
						IDLE - D	50	0.00	570		
						IDLE - N	135	0.00	190		
	COMMENTS: IDLE RPM ADJUSTED										
1	6045	1976	FORD	GRAN	302	1975 FTP	1.30	5.72	647.4	2.42	13.44
						HWY FET	.52	.64	457.8	2.30	19.27
	IDLE HC,PPM/HEXANE 20.					FED S CY	.78	.47	506.4	2.40	17.42
	IDLE CO,PCT (MEAS) 0.00					NY/NJ	3.03	12.31	694.1	3.11	12.27
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	73	.02	960	45 MPH	
						LO SPEED	60	0.00	580	30 MPH	
						IDLE	35	0.00	290	580 RPM	
						2SP IDLE					
						HI IDLE	45	.01	165	2250 RPM	
						LO IDLE	25	0.00	280	950 RPM	
						FED 3MOD					
						HI SPEED	56	.02	970	26.0 DYNO HP	
						LO SPEED	50	.01	710	12.0 DYNO HP	
						IDLE - D	32	0.00	380		
						IDLE - N	20	0.00	260		
	COMMENTS: LIMITER CAPS OK										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
1	6046	1976	FORD	LTD	351	1975 FTP	2.58	51.35	596.2	4.84	12.96
						HWY FET	.37	2.84	476.2	7.13	18.42
	IDLE HC,PPM/HEXANE 280.					FED S CY	1.70	18.00	481.4	4.22	17.23
	IDLE CO,PCT (MEAS) 2.70					NY/NJ	2.97	40.39	611.2	3.20	12.97
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	42	.01	4400	50 MPH	
						LO SPEED	37	.01	2400	35 MPH	
						IDLE	300	4.20	18	520 RPM	
						2SP IDLE					
						HI IDLE	28	.01	490	2250 RPM	
						LO IDLE	51	3.60	22	700 RPM	
						FED 3MOD					
						HI SPEED	30	.01	4400	31.0 DYNO HP	
						LO SPEED	33	.01	2900	15.0 DYNO HP	
						IDLE - D	300	4.40	24		
						IDLE - N	290	3.60	21		
	COMMENTS: LIM CAPS MSNG,VAC SRCE TO THRMACTR BYPS VALV DISCNCTD, EGR BPT BRK										
2	6046	1976	FORD	LTD	351	1975 FTP	1.67	29.40	610.2	5.66	13.41
						HWY FET	.32	1.55	472.7	7.28	18.64
	IDLE HC,PPM/HEXANE 170.					FED S CY	1.30	15.54	483.0	4.45	17.35
	IDLE CO,PCT (MEAS) 2.20					NY/NJ	2.52	33.00	610.5	3.79	13.24
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	34	0.00	2450	50 MPH	
						LO SPEED	23	0.00	1300	35 MPH	
						IDLE	195	2.80	57	500 RPM	
						2SP IDLE					
						HI IDLE	17	.01	250	2250 RPM	
						LO IDLE	160	2.50	29	680 RPM	
						FED 3MOD					
						HI SPEED	22	0.00	2600	31.0 DYNO HP	
						LO SPEED	17	0.00	1600	15.0 DYNO HP	
						IDLE - D	190	2.80	57		
						IDLE - N	175	2.50	45		
	COMMENTS: BY PASS VALVE VAC LINE RECONNECTED										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
3	6046	1976	FORD	LTD	351	1975 FTP	.52	3.15	671.6	6.20	13.09
						HWY FET	.20	.23	473.6	6.91	18.70
	IDLE HC,PPM/HEXANE 50.					FED S CY	.37	.16	534.1	4.89	16.57
	IDLE CO,PCT (MEAS) .01					NY/NJ	.53	.05	694.9	4.19	12.74
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	34	.01	2600	50 MPH	
						LO SPEED	25	.01	1250	35 MPH	
						IDLE	20	.01	160	570 RPM	
						2SP IDLE					
						HI IDLE	15	.01	260	2250 RPM	
						LO IDLE	35	.01	62	800 RPM	
						FED 3MOD					
						HI SPEED	25	.01	2400	31.0 DYNO HP	
						LO SPEED	25	.01	1650	15.0 DYNO HP	
						IDLE - D	20	.01	170		
						IDLE - N	55	.01	58		
	COMMENTS: ADJUSTED IDLE RPM AND CO										
4	6046	1976	FORD	LTD	351	1975 FTP	.44	3.96	618.3	1.72	14.18
						HWY FET	.17	.65	461.2	1.61	19.18
	IDLE HC,PPM/HEXANE 28.					FED S CY	.36	.11	514.1	1.87	17.22
	IDLE CO,PCT (MEAS) .01					NY/NJ	.48	.09	685.8	2.02	12.91
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	22	.01	500	50 MPH	
						LO SPEED	20	.01	370	35 MPH	
						IDLE	17	0.00	175	550 RPM	
						2SP IDLE					
						HI IDLE	25	.01	75	2250 RPM	
						LO IDLE	28	.01	68	800 RPM	
						FED 3MOD					
						HI SPEED	15	.01	440	31.0 DYNO HP	
						LO SPEED	17	.01	440	15.0 DYNO HP	
						IDLE - D	15	.01	210		
						IDLE - N	15	.01	170		
	COMMENTS: MAJOR TUNE UP, REPLACED EGR BPT										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
5	6046	1976	FORD	LTD	351	1975 FTP	.88	17.37	677.8	7.50	12.54
						HWY FET	.24	.40	489.6	9.32	18.08
						FED S CY	.47	.11	548.3	6.56	16.14
						NY/NJ	.65	.09	711.2	5.47	12.44
	IDLE HC,PPM/HEXANE 50.										
	IDLE CO,PCT (MEAS) .01										
	IDLE CO,PCT (SPEC) 99.99										
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	35	.01	2350	50 MPH	
						LO SPEED	30	.01	1400	35 MPH	
						IDLE	20	.01	280	550 RPM	
						2SP IDLE					
						HI IDLE	15	.01	260	2250 RPM	
						LO IDLE	50	.01	50	750 RPM	
						FED 3MOD					
						HI SPEED	35	.01	2425	31.0 DYNO HP	
						LO SPEED	24	.01	1750	15.0 DYNO HP	
						IDLE - D	20	.01	180		
						IDLE - N	100	.01	42		
	COMMENTS: CHKE 3NR, TIMING +6, EGR PLUGGED, FULL VAC TO DIST										
6	6046	1976	FORD	LTD	351	1975 FTP	.62	4.37	708.2	2.91	12.38
						HWY FET	.22	.45	496.1	2.63	17.84
						FED S CY	.51	.05	544.6	2.74	16.25
						NY/NJ	.64	.05	722.3	2.74	12.25
	IDLE HC,PPM/HEXANE 60.										
	IDLE CO,PCT (MEAS) .01										
	IDLE CO,PCT (SPEC) 99.99										
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	37	.01	600	50 MPH	
						LO SPEED	26	0.00	440	35 MPH	
						IDLE	22	0.00	170	580 RPM	
						2SP IDLE					
						HI IDLE	25	0.00	71	2250 RPM	
						LO IDLE	47	0.00	47	780 RPM	
						FED 3MOD					
						HI SPEED	18	0.00	600	31.0 DYNO HP	
						LO SPEED	18	0.00	480	15.0 DYNO HP	
						IDLE - D	15	0.00	200		
						IDLE - N	55	0.00	38		
	COMMENTS: TIMING +6 DEG										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
7	6046	1976	FORD	LTD	351	1975 FTP	.52	5.03	697.1	6.43	12.56
						HWY FET	.18	.20	483.8	7.71	18.31
	IDLE HC.PPM/HEXANE 4.					FED S CY	.35	.06	541.3	5.21	16.36
	IDLE CO.PCT (MEAS) 0.00					NY/NJ	.50	.09	715.4	4.67	12.38
	IDLE CO.PCT (SPEC) 99.99										
							HC.	CO.	NOX.		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	25	.01	2400	50 MPH	
						LO SPEED	18	.01	1100	35 MPH	
						IDLE	14	0.00	155	560 RPM	
						2SP IDLE					
						HI IDLE	10	.01	280	2250 RPM	
						LO IDLE	25	0.00	63	760 RPM	
						FED 3MOD					
						HI SPEED	20	.01	2425	31.0 DYNO HP	
						LO SPEED	17	.01	1400	15.0 DYNO HP	
						IDLE - D	10	0.00	210		
						IDLE - N	40	0.00	52		
	COMMENTS: EGR VALVE PLUGGED										
8	6046	1976	FORD	LTD	351	1975 FTP	.76	10.27	720.4	2.16	12.01
						HWY FET	.17	.52	499.3	1.98	17.73
	IDLE HC PPM/HEXANE 30.					FED S CY	.35	.11	544.9	2.09	16.25
	IDLE CO.PCT (MEAS) .01					NY/NJ	.53	.14	735.4	2.31	12.04
	IDLE CO.PCT (SPEC) 99.99										
							HC.	CO.	NOX.		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	23	.01	590	50 MPH	
						LO SPEED	23	.01	260	35 MPH	
						IDLE	20	.01	140	600 RPM	
						2SP IDLE					
						HI IDLE	40	.01	45	2250 RPM	
						LO IDLE	30	.01	45	830 RPM	
						FED 3MOD					
						HI SPEED	23	.02	420	31.0 DYNO HP	
						LO SPEED	20	.01	300	15.0 DYNO HP	
						IDLE - D	17	.01	140		
						IDLE - N	45	.01	44		
	COMMENTS: CHOKE 3NR										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
9	6046	1976	FORD	LTD	351	1975 FTP	.76	7.11	707.9	2.14	12.30
						HWY FET	.26	1.01	508.9	1.93	17.36
	IDLE HC,PPM/HEXANE 80.					FED S CY	.48	.15	547.9	2.00	16.15
	IDLE CO,PCT (MEAS) .01					NY/NJ	1.17	1.80	1407.0	2.08	6.28
	IDLE CO,PCT (SPEC) 99.99						HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	30	.01	520	50 MPH	
						LO SPEED	23	0.00	310	35 MPH	
						IDLE	23	0.00	115	660 RPM	
						2SP IDLE					
						HI IDLE	50	0.00	38	2250 RPM	
						LO IDLE	50	0.00	40	960 RPM	
						FED 3MOD					
						HI SPEED	15	0.00	460	31.0 DYNO HP	
						LO SPEED	17	0.00	330	15.0 DYNO HP	
						IDLE - D	15	0.00	160		
						IDLE - N	65	0.00	37		
	COMMENTS: FULL VAC ADVNC TO DIST										
I	6047	1976	FORD	TORI	351	1975 FTP	1.38	20.49	617.2	2.79	13.58
						HWY FET	.76	3.69	447.4	2.98	19.48
	IDLE HC,PPM/HEXANE 26.					FED S CY	.96	9.35	500.4	2.99	17.13
	IDLE CO,PCT (MEAS) .65					NY/NJ	2.43	44.85	635.8	2.61	12.43
	IDLE CO,PCT (SPEC) 99.99						HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	60	.12	1275	50 MPH	
						LO SPEED	58	.13	1200	35 MPH	
						IDLE	57	1.40	60	500 RPM	
						2SP IDLE					
						HI IDLE	20	.80	180	2250 RPM	
						LO IDLE	20	.36	38	710 RPM	
						FED 3MOD					
						HI SPEED	50	.11	1400	31.0 DYNO HP	
						LO SPEED	57	.90	1700	15.0 DYNO HP	
						IDLE - D	53	1.50	54		
						IDLE - N	26	.65	40		
	COMMENTS: LIM CAPS MSNG VAC ADVN DIRM LOOS ON DIST CHOKE SYST MIS ADJSTED										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
2	6047	1976	FORD	TORI	351	1975 FTP	2.54	50.66	573.2	2.64	13.43
						HWY FET	.87	5.26	442.5	2.68	19.57
	IDLE HC,PPM/HEXANE 185.					FED S CY	1.52	23.54	474.2	2.69	17.20
	IDLE CO,PCT (MEAS) 4.80					NY/NJ	3.06	60.10	612.7	2.45	12.38
	IDLE CO,PCT (SPEC) 99.99										
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	55	.13	380	50	MPH
						LO SPEED	50	.09	260	35	MPH
						IDLE	230	5.00	6	520	RPM
						2SP IDLE					
						HI IDLE	32	.07	36	2250	RPM
						LO IDLE	185	4.80	6	680	RPM
						FED 3MOD					
						HI SPEED	52	.12	310	31.0	DYNO HP
						LO SPEED	55	.10	300	15.0	DYNO HP
						IDLE - D	200	5.00	7		
						IDLE - N	220	5.00	6		
	COMMENTS: TIGHT VAC ADVNC DIAPRM. RESET CHK										
3	6047	1976	FORD	TORI	351	1975 FTP	1.51	9.08	651.6	3.17	13.23
						HWY FET	.79	2.35	452.8	2.92	19.33
	IDLE HC,PPM/HEXANE 220.					FED S CY	1.58	1.92	505.0	2.84	17.30
	IDLE CO,PCT (MEAS) .04					NY/NJ	1.91	2.98	704.4	2.66	12.41
	IDLE CO,PCT (SPEC) 99.99										
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	45	.07	245	50	MPH
						LO SPEED	39	.03	190	35	MPH
						IDLE	41	.02	125	580	RPM
						2SP IDLE					
						HI IDLE	22	.04	120	2250	RPM
						LO IDLE	220	.04	38	740	RPM
						FED 3MOD					
						HI SPEED	41	.07	940	31.0	DYNO HP
						LO SPEED	37	.03	1000	15.0	DYNO HP
						IDLE - D	33	.02	130		
						IDLE - N	180	.05	48		
	COMMENTS: ADJSTED IDLE RPM AND CO										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
4	6047	1976	FORD	TORI	351	1975 FTP	1.39	7.17	669.1	3.55	12.96
						HWY FET	.90	2.80	508.9	3.40	17.20
	IDLE HC,PPM/HEXANE 15.					FED S CY	1.27	1.60	519.0	3.14	16.89
	IDLE CO,PCT (MEAS) .05					NY/NJ	1.65	1.94	712.0	2.75	12.32
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	53	.05	900	50 MPH	
						LO SPEED	42	.04	720	35 MPH	
						IDLE	38	.02	125	600 RPM	
						2SP IDLE					
						HI IDLE	23	.04	110	2250 RPM	
						LO IDLE	130	.04	32	760 RPM	
						FED 3MOD					
						HI SPEED	38	.07	900	31.0 DYNO HP	
						LO SPEED	34	.03	930	15.0 DYNO HP	
						IDLE - D	30	.02	150		
						IDLE - N	140	.04	36		
	COMMENTS: MAJOR TUNE-UP. 1 QT ANTIFREEZE ADDED										
1	6048	1976	FORD	ELIT	351	1975 FTP	2.77	27.93	589.7	3.32	13.82
						HWY FET	1.61	16.05	451.1	3.35	18.44
	IDLE HC,PPM/HEXANE 660.					FED S CY	2.27	6.49	489.2	3.18	17.52
	IDLE CO,PCT (MEAS) .06					NY/NJ	4.16	12.01	609.6	2.65	13.83
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	105	.60	440	50 MPH	
						LO SPEED	160	.23	410	35 MPH	
						IDLE	230	.05	10	450 RPM	
						2SP IDLE					
						HI IDLE	60	.80	98	2250 RPM	
						LO IDLE	460	.06	10	550 RPM	
						FED 3MOD					
						HI SPEED	85	.34	500	31.0 DYNO HP	
						LO SPEED	120	.60	420	15.0 DYNO HP	
						IDLE - D	260	.06	12		
						IDLE - N	660	.06	9		
	COMMENTS: LIMITER CAPS OK										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
3	6048	1976	FORD	ELIT	351	1975 FTP	2.01	21.56	576.7	3.02	14.39
						HWY FET	1.17	9.76	410.5	3.22	20.66
	IDLE HC.PPM/HEXANE 80.					FED S CY	1.96	6.82	475.1	3.26	18.04
	IDLE CO.PCT (MEAS) .02					NY/NJ	2.30	6.08	649.5	2.94	13.32
	IDLE CO.PCT (SPEC) 99.99										
							HC.	CO.	NOX.		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	30	.07	530	50	MPH
						LO SPEED	33	.13	650	35	MPH
						IDLE	25	.01	40	570	RPM
						2SP IDLE					
						HI IDLE	17	.12	120	2250	RPM
						LO IDLE	80	.02	10	750	RPM
						FED 3MOD					
						HI SPEED	30	.08	520	31.0	DYNO HP
						LO SPEED	30	.07	640	17.0	DYNO HP
						IDLE - D	25	.02	46		
						IDLE - N	80	.01	10		
	COMMENTS: ADJUSTED IDLE CO										
4	6048	1976	FORD	ELIT	351	1975 FTP	1.51	9.85	610.7	3.63	14.07
						HWY FET	.89	4.53	434.7	3.72	19.96
	IDLE HC.PPM/HEXANE 100.					FED S CY	1.35	3.03	501.0	3.19	17.40
	IDLE CO.PCT (MEAS) .03					NY/NJ	2.03	3.88	697.3	3.29	12.50
	IDLE CO.PCT (SPEC) 99.99										
							HC.	CO.	NOX.		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	60	.09	1125	50	MPH
						LO SPEED	55	.12	980	35	MPH
						IDLE	48	.02	160	550	RPM
						2SP IDLE					
						HI IDLE	35	.06	135	2250	RPM
						LO IDLE	100	.03	16	750	RPM
						FED 3MOD					
						HI SPEED	53	.09	1075	31.0	DYNO HP
						LO SPEED	50	.08	1050	15.0	DYNO HP
						IDLE - D	43	.02	145		
						IDLE - N	120	.03	16		
	COMMENTS: MAJ TUNE-UP. REPLCD AIR FLTR AND CRKD VAC LINE TO EGR AND THRMACTR										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
1	6049	1976	FORD	ELIT	351	1975 FTP	1.58	25.18	650.0	3.74	12.78
						HWY FET	.84	2.91	467.2	4.27	18.71
	IDLE HC,PPM/HEXANE 7.					FED S CY	1.10	13.11	516.2	3.78	16.43
	IDLE CO,PCT (MEAS) .01					NY/NJ	2.10	54.83	679.9	2.88	11.49
	IDLE CO,PCT (SPEC) 99.99										
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	53	.03	1400	50 MPH	
						LO SPEED	56	.08	1700	35 MPH	
						IDLE	60	1.60	42	600 RPM	
						2SP IDLE					
						HI IDLE	22	.07	195	2250 RPM	
						LO IDLE	16	.26	35	900 RPM	
						FED 3MOD					
						HI SPEED	48	.04	1400	31.0 DYNO HP	
						LO SPEED	55	.06	1600	15.0 DYNO HP	
						IDLE - D	48	1.40	47		
						IDLE - N	12	1.50	6		
COMMENTS: LIMITER CAPS MISSING, INITIAL TIMING +4 DEG											
2	6049	1976	FORD	ELIT	351	1975 FTP	1.46	24.41	606.7	3.21	13.66
						HWY FET	.78	3.41	432.9	3.69	20.14
	IDLE HC,PPM/HEXANE 15.					FED S CY	1.14	6.41	488.7	3.49	17.67
	IDLE CO,PCT (MEAS) .08					NY/NJ	2.56	64.86	625.4	2.96	12.07
	IDLE CO,PCT (SPEC) 99.99										
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	20	.01	270	50 MPH	
						LO SPEED	20	.03	310	35 MPH	
						IDLE	18	.27	8	580 RPM	
						2SP IDLE					
						HI IDLE	15	.02	34	2250 RPM	
						LO IDLE	15	.08	8	830 RPM	
						FED 3MOD					
						HI SPEED	20	.01	290	31.0 DYNO HP	
						LO SPEED	22	.02	360	15.0 DYNO HP	
						IDLE - D	18	.22	9		
						IDLE - N	15	.09	8		
COMMENTS: INITIAL TIMING ADJUSTED											

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
3	6049	1976	FORD	ELIT	351	1975 FTP	1.58	7.98	642.4	3.97	13.45
						HWY FET	.86	2.61	459.4	3.72	19.04
	IDLE HC,PPM/HEXANE 90.					FED S CY	1.63	1.56	513.3	4.13	17.04
	IDLE CO,PCT (MEAS) .02					NY/NJ	2.11	2.21	701.9	3.36	12.46
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	47	.02	950	50 MPH	
						LO SPEED	42	.02	1075	35 MPH	
						IDLE	30	.01	110	550 RPM	
						2SP IDLE					
						HI IDLE	20	.04	140	2250 RPM	
						LO IDLE	50	.02	20	800 RPM	
						FED 3MOD					
						HI SPEED	35	.03	900	31.0 DYNO HP	
						LO SPEED	35	.03	1050	15.0 DYNO HP	
						IDLE - D	27	.01	120		
						IDLE - N	90	.02	16		
COMMENTS: ADJUSTED IDLE MIXTURE AND REPLACED SPRING											
4	6049	1976	FORD	ELIT	351	1975 FTP	1.52	8.69	661.5	4.04	13.05
						HWY FET	.82	2.35	461.4	3.74	18.98
	IDLE HC,PPM/HEXANE 45.					FED S CY	1.33	1.39	662.9	3.77	13.26
	IDLE CO,PCT (MEAS) .01					NY/NJ	1.75	2.38	714.5	3.64	12.26
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	37	.02	780	50 MPH	
						LO SPEED	34	.02	880	35 MPH	
						IDLE	35	.02	77	580 RPM	
						2SP IDLE					
						HI IDLE	20	.03	70	2250 RPM	
						LO IDLE	50	.02	16	800 RPM	
						FED 3MOD					
						HI SPEED	32	.03	760	31.0 DYNO HP	
						LO SPEED	32	.02	880	15.0 DYNO HP	
						IDLE - D	35	.02	82		
						IDLE - N	60	.03	17		
COMMENTS: MAJOR TUNE UP REPLACED AIR CLEANER											

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
1	6050	1976	FORD	TORI	351	1975 FTP	1.45	7.52	644.0	2.94	13.44
						HWY FET	.88	2.16	442.8	3.08	19.77
						FED S CY	1.09	2.30	516.2	2.27	16.96
						NY/NJ	1.65	4.16	736.7	2.40	11.86
	IDLE HC,PPM/HEXANE 35.										
	IDLE CO,PCT (MEAS) .09										
	IDLE CO,PCT (SPEC) 99.99										
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	50	.05	1100	50 MPH	
						LO SPEED	40	.04	700	35 MPH	
						IDLE	37	.08	155	575 RPM	
						2SP IDLE					
						HI IDLE	30	.05	110	2250 RPM	
						LO IDLE	35	.06	36	840 RPM	
						FED 3MOD					
						HI SPEED	45	.05	1050	31.0 DYNO HP	
						LO SPEED	40	.04	800	15.0 DYNO HP	
						IDLE - D	35	.07	175		
						IDLE - N	32	.09	42		
	COMMENTS: LIMITER CAPS OK										
1	6051	1976	FORD	ELIT	351	1975 FTP	1.35	11.40	660.9	2.61	12.99
						HWY FET	.73	3.64	456.0	2.48	19.13
						FED S CY	.97	4.03	526.9	2.33	16.55
						NY/NJ	1.40	6.79	739.3	2.50	11.76
	IDLE HC,PPM/HEXANE 26.										
	IDLE CO,PCT (MEAS) .08										
	IDLE CO,PCT (SPEC) 99.99										
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	40	.08	840	50 MPH	
						LO SPEED	30	.10	560	35 MPH	
						IDLE	25	.13	110	600 RPM	
						2SP IDLE					
						HI IDLE	20	.06	100	2250 RPM	
						LO IDLE	15	.08	34	900 RPM	
						FED 3MOD					
						HI SPEED	35	.07	800	31.0 DYNO HP	
						LO SPEED	33	.09	700	15.0 DYNO HP	
						IDLE - D	25	.11	115		
						IDLE - N	20	.08	36		
	COMMENTS: LIMITER CAPS OK										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
1	6052	1976	FORD	ELIT	400	1975 FTP	.87	2.16	752.7	2.49	11.70
						HWY FET	.25	.37	564.4	.79	15.69
	IDLE HC,PPM/HEXANE 50.					FED S CY	.62	.09	560.8	1.40	15.77
	IDLE CO,PCT (MEAS) .01					NY/NJ	.77	.10	795.4	2.16	11.12
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	13	.01	490	50 MPH	
						LO SPEED	17	0.00	260	35 MPH	
						IDLE	13	0.00	280	640 RPM	
						2SP IDLE					
						HI IDLE	38	.01	99	2250 RPM	
						LO IDLE	63	0.00	52	940 RPM	
						FED 3MOD					
						HI SPEED	12	.01	420	31.0 DYNO HP	
						LO SPEED	12	0.00	300	15.0 DYNO HP	
						IDLE - D	8	0.00	245		
						IDLE - N	72	0.00	43		
	COMMENTS: LIMITER CAPS OK										
1	6053	1976	FORD	LTD	351	1975 FTP	.71	4.39	731.8	2.74	11.98
						HWY FET	.23	.87	497.5	1.98	17.77
	IDLE HC,PPM/HEXANE 15.					FED S CY	.47	.13	569.3	2.88	15.54
	IDLE CO,PCT (MEAS) 0.00					NY/NJ	.76	1.37	803.1	3.33	10.99
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	25	.01	860	50 MPH	
						LO SPEED	20	.01	440	35 MPH	
						IDLE	27	0.00	610	630 RPM	
						2SP IDLE					
						HI IDLE	12	.01	110	2250 RPM	
						LO IDLE	15	0.00	135	730 RPM	
						FED 3MOD					
						HI SPEED	17	.01	800	31.0 DYNO HP	
						LO SPEED	25	.01	680	15.0 DYNO HP	
						IDLE - D	30	.01	620		
						IDLE - N	15	0.00	145		
	COMMENTS: LIMITER CAPS OK										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
1	6054	1976	FORD	LTD	351	1975 FTP	.77	4.15	703.4	2.60	12.46
						HWY FET	.29	.42	463.1	2.23	19.10
						FED S CY	1.04	5.30	539.2	3.82	16.11
						NY/NJ	3.08	55.02	672.1	2.00	11.55
	IDLE HC,PPM/HEXANE 25.										
	IDLE CO,PCT (MEAS) .01										
	IDLE CO,PCT (SPEC) 99.99										
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	37	.01	880	50 MPH	
						LO SPEED	27	.01	390	35 MPH	
						IDLE	30	.01	39	600 RPM	
						2SP IDLE					
						HI IDLE	40	.01	54	2250 RPM	
						LO IDLE	35	0.00	49	950 RPM	
						FED 3MOD					
						HI SPEED	35	.01	700	31.0 DYNO HP	
						LO SPEED	28	.01	420	15.0 DYNO HP	
						IDLE - D	28	0.00	37		
						IDLE - N	25	.01	28		
	COMMENTS: LIMITER CAPS OK										
1	6055	1976	FORD	LTD	400	1975 FTP	1.20	2.90	761.7	2.03	11.52
						HWY FET	.32	.31	561.7	1.83	15.76
						FED S CY	1.29	.14	585.2	1.75	15.06
						NY/NJ	1.96	.18	767.5	2.02	11.47
	IDLE HC,PPM/HEXANE 60.										
	IDLE CO,PCT (MEAS) .01										
	IDLE CO,PCT (SPEC) 99.99										
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	18	0.00	380	50 MPH	
						LO SPEED	45	0.00	190	35 MPH	
						IDLE	60	0.00	115	500 RPM	
						2SP IDLE					
						HI IDLE	85	0.00	28	2250 RPM	
						LO IDLE	23	0.00	39	660 RPM	
						FED 3MOD					
						HI SPEED	13	0.00	360	31.0 DYNO HP	
						LO SPEED	34	0.00	250	15.0 DYNO HP	
						IDLE - D	38	0.00	150		
						IDLE - N	25	0.00	34		
	COMMENTS: LIM CAPS OK,HTD AIR IN TUBE DISCON,EGR BPT BRKN,CHOK P-O DIAPRM LK										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
2	6055	1976	FORD	LTD	400	1975 FTP	1.72	3.50	713.3	2.08	12.25
						HWY FET	.37	.23	565.2	1.71	15.66
	IDLE HC,PPM/HEXANE 25.					FED S CY	1.07	.24	594.8	1.64	14.83
	IDLE CO,PCT (MEAS) .01					NY/NJ	2.35	.22	758.5	2.00	11.58
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	17	0.00	390	50 MPH	
						LO SPEED	40	0.00	160	35 MPH	
						IDLE	28	0.00	120	520 RPM	
						2SP IDLE					
						HI IDLE	57	0.00	24	2250 RPM	
						LO IDLE	28	0.00	28	660 RPM	
						FED 3MOD					
						HI SPEED	15	0.00	320	31.0 DYNO HP	
						LO SPEED	20	0.00	245	15.0 DYNO HP	
						IDLE - D	35	0.00	120		
						IDLE - N	80	0.00	18		
	COMMENTS: RECONNECTED HEATED AIR INLET TUBE										
3	6055	1976	FORD	LTD	400	1975 FTP	.97	3.50	680.8	1.83	12.88
						HWY FET	.25	.34	552.6	1.56	16.02
	IDLE HC,PPM/HEXANE 65.					FED S CY	1.66	.13	589.2	1.68	14.92
	IDLE CO,PCT (MEAS) .01					NY/NJ	2.31	.13	754.4	1.88	11.65
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	18	0.00	390	50 MPH	
						LO SPEED	28	0.00	190	35 MPH	
						IDLE	40	0.00	180	600 RPM	
						2SP IDLE					
						HI IDLE	75	0.00	28	2250 RPM	
						LO IDLE	50	0.00	30	740 RPM	
						FED 3MOD					
						HI SPEED	12	0.00	340	31.0 DYNO HP	
						LO SPEED	20	0.00	250	15.0 DYNO HP	
						IDLE - D	38	0.00	220		
	COMMENTS: ADJUSTED IDLE MIXTURE					IDLE - N	110	0.00	36		

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
1	6056	1976	FORD	THUN	460	1975 FTP	.60	9.36	868.7	.85	10.03
						HWY FET	.11	1.81	581.1	.72	15.19
	IDLE HC,PPM/HEXANE 31.					FED S CY	.31	.69	674.9	1.11	13.11
	IDLE CO,PCT (MEAS) 1.20					NY/NJ	.54	12.86	915.5	.90	9.47
	IDLE CO,PCT (SPEC) 99.99						HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	14	.01	220	50 MPH	
						LO SPEED	12	0.00	160	35 MPH	
						IDLE	61	1.20	9	580 RPM	
						2SP IDLE					
						HI IDLE	15	.01	59	2250 RPM	
						LO IDLE	18	0.00	33	850 RPM	
						FED 3MOD					
						HI SPEED	17	.35	185	36.0 DYNO HP	
						LO SPEED	17	.01	91	18.0 DYNO HP	
						IDLE - D	15	0.00	48		
						IDLE - N	31	1.20	8		
	COMMENTS: LIMITER CAPS MISSING VAC LINE TO DIST HAS BEEN REROUTED										
2	6056	1976	FORD	THUN	460	1975 FTP	.66	4.89	831.7	1.50	10.55
						HWY FET	.15	.97	562.3	1.12	15.73
	IDLE HC,PPM/HEXANE 25.					FED S CY	.44	.89	660.5	1.55	13.38
	IDLE CO,PCT (MEAS) 0.00					NY/NJ	1.21	20.68	872.1	1.68	9.77
	IDLE CO,PCT (SPEC) 99.99						HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	25	.10	160	50 MPH	
						LO SPEED	12	.01	165	35 MPH	
						IDLE	17	0.00	105	660 RPM	
						2SP IDLE					
						HI IDLE	10	0.00	50	2250 RPM	
						LO IDLE	25	0.00	37	1020 RPM	
						FED 3MOD					
						HI SPEED	13	.35	70	36.0 DYNO HP	
						LO SPEED	10	.01	220	18.0 DYNO HP	
						IDLE - D	10	0.00	105		
						IDLE - N	13	0.00	38		
	COMMENTS: ROUTED VAC LINE TO DIST CORRECTLY										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
1	6057	1976	FORD	THUN	460	1975 FTP	.72	8.25	826.8	1.99	10.54
						HWY FET	.15	.67	551.7	1.48	16.04
	IDLE HC,PPM/HEXANE 65.					FED S CY	.64	.32	611.7	1.65	14.45
	IDLE CO,PCT (MEAS) .01					NY/NJ	.47	.21	812.0	1.72	10.91
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	15	.02	460	50	MPH
						LO SPEED	13	0.00	220	35	MPH
						IDLE	10	0.00	130	680	RPM
						2SP IDLE					
						HI IDLE	40	0.00	35	2250	RPM
						LO IDLE	35	0.00	24	940	RPM
						FED 3MOD					
						HI SPEED	8	.01	400	36.0	DYNO HP
						LO SPEED	12	0.00	250	18.0	DYNO HP
						IDLE - D	8	0.00	125		
						IDLE - N	60	0.00	22		
	COMMENTS: LIMITER CAPS OK										
1	6058	1976	MERC	MONA	250	1975 FTP	.68	1.98	613.1	1.28	14.35
						HWY FET	.15	.13	470.1	1.91	18.85
	IDLE HC,PPM/HEXANE 8.					FED S CY	.64	1.45	487.1	.86	18.06
	IDLE CO,PCT (MEAS) 0.00					NY/NJ	2.28	22.70	653.6	1.24	12.74
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	15	0.00	280	45	MPH
						LO SPEED	13	0.00	45	30	MPH
						IDLE	11	0.00	78	630	RPM
						2SP IDLE					
						HI IDLE	18	0.00	14	2250	RPM
						LO IDLE	15	0.00	17	920	RPM
						FED 3MOD					
						HI SPEED	7	0.00	280	26.0	DYNO HP
						LO SPEED	9	0.00	100	12.0	DYNO HP
						IDLE - D	8	0.00	130		
						IDLE - N	14	0.00	19		
	COMMENTS: LIMITER CAPS OK										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC		FUEL ECON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----					
1	6059	1976	MERC	MONA	302	1975 FTP	1.28	2.10	632.3	4.37		13.87
						HWY FET	.40	.31	452.1	2.43		19.56
	IDLE HC,PPM/HEXANE 125.					FED S CY	.64	.26	492.3	3.72		17.94
	IDLE CO,PCT (MEAS) .02					NY/NJ	.73	.26	568.1	3.92		15.55
	IDLE CO,PCT (SPEC) 99.99											
							HC,	CO,	NOX,			
						KEY MODE	PPM	PCT	PPM			
						HI SPEED	52	.01	1000	45	MPH	
						LO SPEED	42	.01	1050	30	MPH	
						IDLE	44	.01	780	660	RPM	
						2SP IDLE						
						HI IDLE	28	.01	180	2250	RPM	
						LO IDLE	82	.01	280	1040	RPM	
						FED 3MOD						
						HI SPEED	34	.02	1000	26.0	DYNO HP	
						LO SPEED	38	.01	970	12.0	DYNO HP	
						IDLE - D	38	.01	880			
						IDLE - N	65	.01	328			
COMMENTS: LIMTR CPS OK, EGR BPT BROKEN												
3	6059	1976	MERC	MONA	302	1975 FTP	1.09	1.82	567.5	3.51		15.47
						HWY FET	.40	.38	435.2	2.27		20.31
	IDLE HC,PPM/HEXANE 190.					FED S CY	1.18	.13	455.6	3.42		19.31
	IDLE CO,PCT (MEAS) .01					NY/NJ	2.21	.43	600.2	3.93		14.60
	IDLE CO,PCT (SPEC) 99.99											
							HC,	CO,	NOX,			
						KEY MODE	PPM	PCT	PPM			
						HI SPEED	55	.01	1075	45	MPH	
						LO SPEED	50	.01	1025	30	MPH	
						IDLE	95	.01	450	580	RPM	
						2SP IDLE						
						HI IDLE	50	.01	155	2250	RPM	
						LO IDLE	140	.01	150	670	RPM	
						FED 3MOD						
						HI SPEED	50	.01	1000	26.0	DYNO HP	
						LO SPEED	50	.01	1000	12.0	DYNO HP	
						IDLE - D	70	.01	470			
						IDLE - N	180	.01	188			
COMMENTS: ADJUSTED IDLE RPM AND CO												

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
4	6059	1976	MERC	MONA	302	1975 FTP	1.17	2.18	589.3	3.06	14.88
						HWY FET	.44	.40	457.1	2.17	19.33
	IDLE HC,PPM/HEXANE 170.					FED S CY	1.25	.24	470.2	2.61	18.70
	IDLE CO,PCT (MEAS) .01					NY/NJ	2.17	.55	628.2	3.68	13.96
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	70	.02	950	45 MPH	
						LO SPEED	57	.01	570	30 MPH	
						IDLE	80	.01	480	610 RPM	
						2SP IDLE					
						HI IDLE	90	.01	130	2250 RPM	
						LO IDLE	175	.01	205	730 RPM	
						FED 3MOD					
						HI SPEED	53	.02	880	26.0 DYNO HP	
						LO SPEED	55	.01	700	12.0 DYNO HP	
						IDLE - D	85	.01	500		
						IDLE - N	190	.01	230		
COMMENTS: MAJOR TUNE-UP, REPL EGR BK PRSSRE TRNSDUCR											
1	6060	1976	MERC	MONA	302	1975 FTP	4.35	53.84	519.4	4.43	14.37
						HWY FET	1.15	18.23	432.0	3.83	19.11
	IDLE HC,PPM/HEXANE 480.					FED S CY	3.34	30.56	422.1	3.49	18.46
	IDLE CO,PCT (MEAS) 5.04					NY/NJ	5.76	69.47	509.1	3.79	13.94
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	100	.80	610	45 MPH	
						LO SPEED	65	.16	100	30 MPH	
						IDLE	600	5.00	8	420 RPM	
						2SP IDLE					
						HI IDLE	75	.10	60	2250 RPM	
						LO IDLE	660	5.00	8	500 RPM	
						FED 3MOD					
						HI SPEED	110	.80	520	26.0 DYNO HP	
						LO SPEED	55	.11	150	12.0 DYNO HP	
						IDLE - D	620	5.00	8		
						IDLE - N	740	5.00	7		
COMMENTS: LIM CAPS OK, HOLE DRILD IN "T" CONN IN LINE TO EGR AND BY-PASS VAL											

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
2	6060	1976	MERC	MONA	302	1975 FTP	.73	1.21	591.4	1.93	14.90
						HWY FET	.27	.28	475.4	1.71	18.62
	IDLE HC,PPM/HEXANE 440.					FED S CY	.96	2.81	456.3	1.58	19.14
	IDLE CO,PCT (MEAS) 4.00					NY/NJ	3.14	35.53	579.5	2.01	13.75
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	32	.01	460	45 MPH	
						LO SPEED	23	0.00	280	30 MPH	
						IDLE	14	0.00	-0	460 RPM	
						2SP IDLE					
						HI IDLE	45	0.00	64	2250 RPM	
						LO IDLE	380	4.20	26	600 RPM	
						FED 3MOD					
						HI SPEED	25	.01	500	31.0 DYNO HP	
						LO SPEED	22	0.00	340	15.0 DYNO HP	
						IDLE - D	13	0.00	24		
						IDLE - N	360	4.10	25		
	COMMENTS: REPLACED "T" CONNECTOR IN EGR LINE										
1	6061	1976	MERC	COUG	351	1975 FTP	1.38	34.01	657.0	2.46	12.42
						HWY FET	.63	8.17	460.2	2.95	18.68
	IDLE HC,PPM/HEXANE 50.					FED S CY	1.13	22.36	519.5	2.70	15.90
	IDLE CO,PCT (MEAS) .28					NY/NJ	3.29	104.27	721.7	2.15	9.91
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	32	.09	740	50 MPH	
						LO SPEED	30	.22	620	35 MPH	
						IDLE	23	1.20	10	500 RPM	
						2SP IDLE					
						HI IDLE	10	.07	86	2250 RPM	
						LO IDLE	12	.29	12	680 RPM	
						FED 3MOD					
						HI SPEED	26	.15	680	31.0 DYNO HP	
						LO SPEED	30	.20	700	15.0 DYNO HP	
						IDLE - D	15	.80	10		
						IDLE - N	20	1.10	9		
	COMMENTS: LIMITER CAPS MISSING										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
3	6061	1976	MERC	COUG	351	1975 FTP	1.31	7.91	638.4	3.44	13.55
						HWY FET	.68	4.02	445.3	3.07	19.56
	IDLE HC,PPM/HEXANE 120.					FED S CY	1.34	2.55	505.6	3.16	17.27
	IDLE CO,PCT (MEAS) .02					NY/NJ	1.51	4.86	698.7	3.01	12.48
	IDLE CO,PCT (SPEC) 99.99										
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	33	.04	660	50	MPH
						LO SPEED	31	.06	600	35	MPH
						IDLE	25	.02	48	580	RPM
						2SP IDLE					
						HI IDLE	13	.04	73	2250	RPM
						LO IDLE	40	.02	12	720	RPM
						FED 3MOD					
						HI SPEED	28	.08	620	31.0	DYNO HP
						LO SPEED	30	.08	700	15.0	DYNO HP
						IDLE - D	24	.01	44		
						IDLE - N	60	.02	12		
	COMMENTS: ADJSTED IDLE CO AND RPM REPLCED IDLE MXTRE SCREW AND SPRING										
4	6061	1976	MERC	COUG	351	1975 FTP	1.27	6.89	645.7	3.42	13.44
						HWY FET	.68	3.72	448.1	3.27	19.46
	IDLE HC,PPM/HEXANE 70.					FED S CY	1.25	2.69	507.2	3.19	17.22
	IDLE CO,PCT (MEAS) .01					NY/NJ	2.20	3.34	748.6	2.83	11.66
	IDLE CO,PCT (SPEC) 99.99										
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	32	.07	700	50	MPH
						LO SPEED	25	.05	590	35	MPH
						IDLE	22	.01	46	580	RPM
						2SP IDLE					
						HI IDLE	12	.04	75	2250	RPM
						LO IDLE	75	.02	11	760	RPM
						FED 3MOD					
						HI SPEED	27	.10	610	31.0	DYNO HP
						LO SPEED	28	.06	700	15.0	DYNO HP
						IDLE - D	23	.01	46		
						IDLE - N	60	.02	10		
	COMMENTS: MAJOR TUNE UP										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
1	6062	1976	MERC	MONG	351	1975 FTP	2.16	13.96	638.7	2.76	13.30
						HWY FET	1.09	3.32	461.5	2.78	18.88
	IDLE HC,PPM/HEXANE 40.					FED S CY	1.51	5.38	511.0	2.32	16.93
	IDLE CO,PCT (MEAS) .05					NY/NJ	1.98	8.82	593.9	2.33	14.45
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	62	.05	1000	50	MPH
						LO SPEED	50	.05	630	35	MPH
						IDLE	40	.09	115	560	RPM
						2SP IDLE					
						HI IDLE	17	.06	96	2250	RPM
						LO IDLE	40	.05	26	720	RPM
						FED 3MOD					
						HI SPEED	50	.06	930	31.0	DYNO HP
						LO SPEED	45	.08	720	15.0	DYNO HP
						IDLE - D	40	.09	110		
						IDLE - N	40	.05	29		
	COMMENTS: LIMITER CAPS OK										
3	6062	1976	MERC	MONG	351	1975 FTP	2.04	9.65	648.6	2.89	13.24
						HWY FET	1.09	2.68	465.2	2.91	18.77
	IDLE HC,PPM/HEXANE 140.					FED S CY	1.70	3.05	533.3	2.36	16.33
	IDLE CO,PCT (MEAS) .02					NY/NJ	1.94	4.01	710.8	2.61	12.27
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	58	.05	960	50	MPH
						LO SPEED	47	.06	640	35	MPH
						IDLE	37	.02	100	540	RPM
						2SP IDLE					
						HI IDLE	22	.04	95	2250	RPM
						LO IDLE	100	.02	16	700	RPM
						FED 3MOD					
						HI SPEED	48	.06	950	31.0	DYNO HP
						LO SPEED	44	.04	740	15.0	DYNO HP
						IDLE - D	37	.02	92		
						IDLE - N	70	.02	19		
	COMMENTS: ADJUSTED IDLE RPM										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOxC	FUEL ECON (MPG)
4	6062	1976	MERC	MONG	351	1975 FTP	1.90	8.89	668.7	3.23	12.89
						HWY FET	1.06	2.41	466.4	3.03	18.74
	IDLE HC,PPM/HEXANE 100.					FED S CY	1.47	3.00	527.8	2.64	16.52
	IDLE CO,PCT (MEAS) .03					NY/NJ	2.17	4.61	733.9	2.71	11.86
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	58	.05	840	50 MPH	
						LO SPEED	50	.04	650	35 MPH	
						IDLE	38	.03	120	580 RPM	
						2SP IDLE					
						HI IDLE	18	.04	93	2250 RPM	
						LO IDLE	60	.03	24	760 RPM	
						FED 3MOD					
						HI SPEED	48	.05	820	31.0 DYNO HP	
						LO SPEED	47	.05	710	15.0 DYNO HP	
						IDLE - D	37	.02	120		
						IDLE - N	75	.03	21		
	COMMENTS: MAJOR TUNE UP RPLD AIR FLTR										
A	6062	1976	MERC	MONG	351	1975 FTP	1.77	11.71	664.2	2.70	12.90
						HWY FET	1.01	4.02	475.3	2.67	18.30
	IDLE HC,PPM/HEXANE 85.					FED S CY	1.39	5.85	536.8	2.34	16.13
	IDLE CO,PCT (MEAS) .10					NY/NJ	1.89	12.76	737.2	2.21	11.63
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	67	.09	680	50 MPH	
						LO SPEED	60	.23	470	35 MPH	
						IDLE	45	.17	71	660 RPM	
						2SP IDLE					
						HI IDLE	20	.11	45	2250 RPM	
						LO IDLE	85	.10	21	900 RPM	
						FED 3MOD					
						HI SPEED	60	.08	620	31.0 DYNO HP	
						LO SPEED	55	.10	580	15.0 DYNO HP	
						IDLE - D	40	.09	80		
						IDLE - N	130	.10	20		
	COMMENTS: RPLD CRB GSKT SPCR GSKT 2EGR GSKT RST CO RPLD PCV VLV DRN 1QT OIL										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOxC	FUEL ECON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
1	6063	1976	MERC	MARQ	400	1975 FTP	.86	4.97	755.9	2.04	11.58
						HWY FET	.26	1.12	515.5	1.78	17.13
	IDLE HC,PPM/HEXANE 150.					FED S CY	.88	.19	593.2	1.60	14.88
	IDLE CO,PCT (MEAS) .01					NY/NJ	.99	1.03	815.2	2.01	10.82
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	27	.01	940	50 MPH	
						LO SPEED	28	0.00	320	35 MPH	
						IDLE	47	0.00	440	660 RPM	
						2SP IDLE					
						HI IDLE	130	.01	99	2250 RPM	
						LO IDLE	145	0.00	140	940 RPM	
						FED 3MOD					
						HI SPEED	19	.01	860	31.0 DYNO HP	
						LO SPEED	22	.01	340	15.0 DYNO HP	
						IDLE - D	37	0.00	460		
						IDLE - N	160	0.00	145		
	COMMENTS: LIM CAPS OK EXHST BKPRSSERTRNSDUCR BRKN AT STEM										
1	6064	1976	MERC	MARQ	400	1975 FTP	.92	6.44	743.4	1.48	11.73
						HWY FET	.26	.77	512.2	1.64	17.26
	IDLE HC,PPM/HEXANE 450.					FED S CY	1.20	10.30	568.9	1.56	15.07
	IDLE CO,PCT (MEAS) 4.00					NY/NJ	4.06	73.01	655.4	1.54	11.33
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	28	.04	480	50 MPH	
						LO SPEED	30	.01	280	35 MPH	
						IDLE	240	4.80	10	540 RPM	
						2SP IDLE					
						HI IDLE	100	.01	28	2250 RPM	
						LO IDLE	55	.01	13	740 RPM	
						FED 3MOD					
						HI SPEED	19	.02	460	31.0 DYNO HP	
						LO SPEED	18	.01	320	15.0 DYNO HP	
						IDLE - D	200	3.60	13		
						IDLE - N	420	3.90	19		
	COMMENTS: LIM CAPS MSSNG CHOKE MALADJ INL PCV HOSE TO AIR CLNR DISCNTED										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
2	6064	1976	MERC	MARQ	400	1975 FTP	.83	6.59	733.4	1.37	11.89
						HWY FET	.26	.62	509.7	1.51	17.35
	IDLE HC,PPM/HEXANE 100.					FED S CY	1.25	11.17	555.6	1.45	15.38
	IDLE CO,PCT (MEAS) .01					NY/NJ	4.57	77.82	658.5	1.44	11.16
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	42	.06	600	50 MPH	
						LO SPEED	35	.01	360	35 MPH	
						IDLE	40	.01	34	500 RPM	
						2SP IDLE					
						HI IDLE	190	.02	86	2250 RPM	
						LO IDLE	100	.01	28	700 RPM	
						FED 3MOD					
						HI SPEED	30	.03	580	31.0 DYNO HP	
						LO SPEED	28	.01	470	15.0 DYNO HP	
						IDLE - D	40	.09	32		
						IDLE - N	240	.02	40		
	COMMENTS: RECONNECTED PCV HOSE TO AIR CLNR, CHOKE ADJUSTED										
5	6064	1976	MERC	MARQ	400	1975 FTP	1.22	20.29	776.1	6.25	10.93
						HWY FET	.23	1.07	535.0	8.76	16.52
	IDLE HC,PPM/HEXANE 2000.					FED S CY	1.76	6.04	568.0	6.15	15.22
	IDLE CO,PCT (MEAS) 5.00					NY/NJ	4.19	63.47	679.5	5.40	11.20
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	27	.10	2000	50 MPH	
						LO SPEED	28	.01	2400	35 MPH	
						IDLE	330	6.10	56	520 RPM	
						2SP IDLE					
						HI IDLE	90	.01	420	2250 RPM	
						LO IDLE	600	5.90	56	720 RPM	
						FED 3MOD					
						HI SPEED	38	.05	2600	36.0 DYNO HP	
						LO SPEED	33	.01	2800	18.0 DYNO HP	
						IDLE - D	320	6.20	58		
						IDLE - N	1150	6.30	50		
	COMMENTS: CHOKE HTR DISABLED, CHOKE 3 NR, TIMING +5, EGR PLUGGED										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC		FUEL ECON (MPG)
6	6064	1976	MERC	MARQ	400	1975 FTP	1.05	6.50	732.1	1.98		11.90
						HWY FET	.39	.64	512.2	2.12		17.25
	IDLE HC,PPM/HEXANE 1120.					FED S CY	2.14	5.02	555.1	2.29		15.58
	IDLE CO,PCT (MEAS) 6.50					NY/NJ	4.74	60.19	658.8	2.03		11.55
	IDLE CO,PCT (SPEC) 99.99											
							HC, PPM	CO, PCT	NOX, PPM			
						KEY MODE						
						HI SPEED	43	.04	860	50	MPH	
						LO SPEED	100	0.00	560	35	MPH	
						IDLE	400	6.40	44	500	RPM	
						2SP IDLE						
						HI IDLE	760	.02	125	2250	RPM	
						LO IDLE	120	2.80	58	680	RPM	
						FED 3MOD						
						HI SPEED	30	.03	730	31.0	DYNO HP	
						LO SPEED	50	.01	570	15.0	DYNO HP	
						IDLE - D	330	6.20	43			
	COMMENTS: TIMING +5 DEG					IDLE - N	950	4.90	43			
7	6064	1976	MERC	MARQ	400	1975 FTP	.67	5.49	734.8	5.48		11.90
						HWY FET	.21	.94	501.8	7.54		17.61
	IDLE HC,PPM/HEXANE 800.					FED S CY	1.15	6.23	551.3	5.06		15.72
	IDLE CO,PCT (MEAS) 5.00					NY/NJ	3.86	71.63	644.6	4.04		11.54
	IDLE CO,PCT (SPEC) 99.99											
							HC, PPM	CO, PCT	NOX, PPM			
						KEY MODE						
						HI SPEED	38	.05	2300	50	MPH	
						LO SPEED	35	0.00	1750	35	MPH	
						IDLE	480	6.80	66	500	RPM	
						2SP IDLE						
						HI IDLE	55	.02	340	2250	RPM	
						LO IDLE	155	.01	33	660	RPM	
						FED 3MOD						
						HI SPEED	27	.02	2900	31.0	DYNO HP	
						LO SPEED	23	.01	1100	15.0	DYNO HP	
						IDLE - D	29	.01	78			
	COMMENTS: EGR VALVE PLUGGED					IDLE - N	480	6.20	28			

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
8	6064	1976	MERC	MARQ	400	1975 FTP	1.51	13.97	733.9	1.45	11.67
						HWY FET	.26	.74	513.6	1.73	17.21
	IDLE HC,PPM/HEXANE 150.					FED S CY	1.15	5.16	557.2	1.87	15.60
	IDLE CO,PCT (MEAS) .02					NY/NJ	3.46	59.81	669.8	1.65	11.46
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	35	.08	650	50	MPH
						LO SPEED	50	0.00	380	35	MPH
						IDLE	300	6.50	24	600	RPM
						2SP IDLE					
						HI IDLE	280	.02	86	2250	RPM
						LO IDLE	150	0.00	28	820	RPM
						FED 3MOD					
						HI SPEED	30	.04	630	31.0	DYNO HP
						LO SPEED	28	.01	410	15.0	DYNO HP
						IDLE - D	300	6.10	26		
						IDLE - N	680	6.80	36		
	COMMENTS: CHOKE 3NR										
9	6064	1976	MERC	MARQ	400	1975 FTP	.77	5.74	728.6	1.59	11.99
						HWY FET	.25	.81	509.7	1.78	17.34
	IDLE HC,PPM/HEXANE 140.					FED S CY	1.15	5.56	534.6	1.85	16.22
	IDLE CO,PCT (MEAS) .01					NY/NJ	3.28	57.10	663.4	1.71	11.62
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	58	.04	790	50	MPH
						LO SPEED	45	.01	400	35	MPH
						IDLE	55	.01	39	600	RPM
						2SP IDLE					
						HI IDLE	270	.02	90	2250	RPM
						LO IDLE	140	.01	33	860	RPM
						FED 3MOD					
						HI SPEED	38	.03	730	31.0	DYNO HP
						LO SPEED	50	.01	540	15.0	DYNO HP
						IDLE - D	45	.01	46		
						IDLE - N	90	.01	38		
	COMMENTS: CHOKE HEATER DISABLED										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
1	6065	1976	LINC	CONT	460	1975 FTP	.47	3.25	771.9	2.03	11.40
						HWY FET	.09	.32	544.3	2.04	16.28
	IDLE HC,PPM/HEXANE 10.					FED S CY	.44	3.97	604.0	1.82	14.51
	IDLE CO,PCT (MEAS) 0.00					NY/NJ	1.87	34.85	714.7	1.71	11.45
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	12	.01	800	50 MPH	
						LO SPEED	10	0.00	390	35 MPH	
						IDLE	10	0.00	68	500 RPM	
						2SP IDLE					
						HI IDLE	15	.01	98	2250 RPM	
						LO IDLE	8	0.00	56	700 RPM	
						FED 3MOD					
						HI SPEED	5	.01	810	36.0 DYNO HP	
						LO SPEED	7	0.00	500	18.0 DYNO HP	
						IDLE - D	8	0.00	80		
	COMMENTS: LIMITER CAPS OK					IDLE - N	10	0.00	50		
1	6066	1976	LINC	MRK4	460	1975 FTP	.52	5.42	831.7	2.07	10.54
						HWY FET	.16	.74	548.4	1.99	16.14
	IDLE HC,PPM/HEXANE 150.					FED S CY	.75	.19	640.8	1.51	13.79
	IDLE CO,PCT (MEAS) 0.00					NY/NJ	.76	.23	871.2	1.79	10.16
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	17	.01	570	50 MPH	
						LO SPEED	16	0.00	300	35 MPH	
						IDLE	18	0.00	280	660 RPM	
						2SP IDLE					
						HI IDLE	25	.01	84	2250 RPM	
						LO IDLE	50	0.00	125	1100 RPM	
						FED 3MOD					
						HI SPEED	11	0.00	680	36.0 DYNO HP	
						LO SPEED	14	0.00	520	18.0 DYNO HP	
						IDLE - D	18	0.00	360		
	COMMENTS: LIMITER CAPS OK					IDLE - N	150	0.00	105		

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
5	6066	1976	LINC	MRK4	460	1975 FTP	1.02	3.46	767.0	8.71	11.44
						HWY FET	.24	.20	516.2	8.58	17.16
	IDLE HC.PPM/HEXANE 180.					FED S CY	1.54	.22	577.4	5.13	15.23
	IDLE CO.PCT (MEAS) .01					NY/NJ	1.74	.22	780.1	4.79	11.29
	IDLE CO.PCT (SPEC) 99.99										
							HC.	CO.	NOX.		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	65	.01	3600	50 MPH	
						LO SPEED	35	.01	1550	35 MPH	
						IDLE	180	.01	300	580 RPM	
						2SP IDLE					
						HI IDLE	40	.01	300	2250 RPM	
						LO IDLE	240	.01	105	750 RPM	
						FED 3MOD					
						HI SPEED	25	.01	4000	36.0 DYNO HP	
						LO SPEED	20	.01	2500	18.0 DYNO HP	
						IDLE - D	85	.01	340		
						IDLE - N	280	.01	100		
	COMMENTS: EGR PLUGGED. TIMING +5. FULL VAC TO DIST. CHOKE 3NR										
6	6066	1976	LINC	MRK4	460	1975 FTP	.89	9.63	781.0	2.27	11.11
						HWY FET	.21	1.00	553.3	2.35	15.98
	IDLE HC.PPM/HEXANE 300.					FED S CY	1.36	.18	604.3	1.98	14.58
	IDLE CO.PCT (MEAS) .75					NY/NJ	1.32	.19	772.8	1.86	11.42
	IDLE CO.PCT (SPEC) 99.99										
							HC.	CO.	NOX.		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	44	.02	850	50 MPH	
						LO SPEED	65	.01	440	35 MPH	
						IDLE	100	.80	19	640 RPM	
						2SP IDLE					
						HI IDLE	700	.01	110	2250 RPM	
						LO IDLE	95	.01	25	860 RPM	
						FED 3MOD					
						HI SPEED	28	.01	940	36.0 DYNO HP	
						LO SPEED	33	.01	540	18.0 DYNO HP	
						IDLE - D	35	.14	200		
						IDLE - N	27	.10	18		
	COMMENTS: TIMING +5 DEG										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
7	6066	1976	LINC	MRK4	460	1975 FTP	.67	5.65	766.5	6.72	11.42
						HWY FET	.17	.30	539.3	8.03	16.43
	IDLE HC,PPM/HEXANE 50.					FED S CY	.60	.40	594.6	5.01	14.86
	IDLE CO,PCT (MEAS) .25					NY/NJ	.46	1.62	764.5	3.75	11.55
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	40	.01	3200	50 MPH	
						LO SPEED	35	.01	1500	35 MPH	
						IDLE	85	.36	23	610 RPM	
						2SP IDLE					
						HI IDLE	20	.01	280	2250 RPM	
						LO IDLE	120	.39	22	830 RPM	
						FED 3MOD					
						HI SPEED	27	.01	3200	36.0 DYNO HP	
						LO SPEED	27	.01	2700	18.0 DYNO HP	
						IDLE - D	23	.01	72		
						IDLE - N	55	.01	40		
	COMMENTS: EGR PLUGGED										
8	6066	1976	LINC	MRK4	460	1975 FTP	.80	7.06	804.0	2.10	10.85
						HWY FET	.15	.84	556.0	2.00	15.91
	IDLE HC,PPM/HEXANE 320.					FED S CY	1.17	.26	614.6	1.40	14.35
	IDLE CO,PCT (MEAS) .01					NY/NJ	1.88	.30	776.7	1.42	11.33
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	27	.02	590	50 MPH	
						LO SPEED	25	.01	310	35 MPH	
						IDLE	70	0.00	170	660 RPM	
						2SP IDLE					
						HI IDLE	150	.02	75	2250 RPM	
						LO IDLE	100	.01	59	860 RPM	
						FED 3MOD					
						HI SPEED	19	.01	680	36.0 DYNO HP	
						LO SPEED	21	.01	530	18.0 DYNO HP	
						IDLE - D	40	.01	190		
						IDLE - N	140	.01	60		
	COMMENTS: CHOKE 3NR										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
9	6066	1976	LINC	MRK4	460	1975 FTP	.85	7.56	789.6	1.83	11.04
						HWY FET	.18	1.31	559.9	1.79	15.78
	IDLE HC,PPM/HEXANE 300.					FED S CY	1.24	.29	606.3	1.49	14.53
	IDLE CO,PCT (MEAS) .02					NY/NJ	2.36	.26	760.3	1.37	11.55
	IDLE CO,PCT (SPEC) 99.99										
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	40	.02	820	50 MPH	
						LO SPEED	55	.01	350	35 MPH	
						IDLE	90	0.00	130	620 RPM	
						2SP IDLE					
						HI IDLE	190	.01	82	2250 RPM	
						LO IDLE	180	0.00	36	820 RPM	
						FED 3MOD					
						HI SPEED	22	.01	800	36.0 DYNO HP	
						LO SPEED	23	0.00	260	18.0 DYNO HP	
						IDLE - D	50	0.00	76		
						IDLE - N	170	0.00	33		
	COMMENTS: FULL VAC ADV TO DIST										
1	6067	1976	BUIC	SKYL	231	1975 FTP	.50	4.04	475.0	3.23	18.38
						HWY FET	.08	1.02	348.8	3.83	25.31
	IDLE HC,PPM/HEXANE 15.					FED S CY	.06	.19	376.5	1.77	23.54
	IDLE CO,PCT (MEAS) .01					NY/NJ	.10	.06	514.7	2.00	17.23
	IDLE CO,PCT (SPEC) 99.99										
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	22	0.00	1600	45 MPH	
						LO SPEED	16	0.00	610	30 MPH	
						IDLE	10	0.00	280	380 RPM	
						2SP IDLE					
						HI IDLE	8	0.00	250	2250 RPM	
						LO IDLE	8	0.00	86	500 RPM	
						FED 3MOD					
						HI SPEED	13	0.00	2200	26.0 DYNO HP	
						LO SPEED	10	0.00	1150	12.0 DYNO HP	
						IDLE - D	7	0.00	350		
						IDLE - N	7	0.00	66		
	COMMENTS: LIMITER CAPS OK HEATED AIR DOOR HINGE PIN BRKN										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
3	6067	1976	BUIC	SKYL	231	1975 FTP	.50	3.68	455.5	2.96	19.17
						HWY FET	.09	1.02	338.8	3.77	26.05
	IDLE HC,PPM/HEXANE 7.					FED S CY	.11	.53	366.3	1.69	24.15
	IDLE CO,PCT (MEAS) .01					NY/NJ	.20	.73	492.4	1.75	17.96
	IDLE CO,PCT (SPEC) 99.99										
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	22	.01	1400	45 MPH	
						LO SPEED	20	.01	720	30 MPH	
						IDLE	7	.01	155	400 RPM	
						2SP IDLE					
						HI IDLE	17	.01	120	2250 RPM	
						LO IDLE	11	.01	41	560 RPM	
						FED 3MOD					
						HI SPEED	15	.01	1650	26.0 DYNO HP	
						LO SPEED	13	.01	900	12.0 DYNO HP	
						IDLE - D	7	.01	160		
						IDLE - N	7	.01	55		
	COMMENTS: ADJUSTED IDLE RPM AND CO										
1	6068	1976	BUIC	REGA	231	1975 FTP	.54	7.33	519.3	3.07	16.67
						HWY FET	.06	.44	386.3	3.45	22.92
	IDLE HC,PPM/HEXANE 12.					FED S CY	.14	1.21	407.1	1.81	21.68
	IDLE CO,PCT (MEAS) 0.00					NY/NJ	.18	1.96	537.1	1.80	16.41
	IDLE CO,PCT (SPEC) 99.99										
							HC, PPM	CC, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	15	0.00	1300	46 MPH	
						LO SPEED	14	0.00	560	30 MPH	
						IDLE	10	0.00	340	500 RPM	
						2SP IDLE					
						HI IDLE	10	0.00	360	2250 RPM	
						LO IDLE	10	0.00	83	800 RPM	
						FED 3MOD					
						HI SPEED	11	0.00	1750	31.0 DYNO HP	
						LO SPEED	10	0.00	840	15.0 DYNO HP	
						IDLE - D	9	0.00	320		
						IDLE - N	8	0.00	75		
	COMMENTS: LIMITER CAPS OK										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
5	6068	1976	BUIC	REGA	231	1975 FTP	.65	10.14	508.7	8.44	16.85
						HWY FET	.09	.67	377.8	10.81	23.41
	IDLE HC,PPM/HEXANE 20.					FED S CY	.14	1.42	385.5	7.39	22.86
	IDLE CO,PCT (MEAS) 0.00					NY/NJ	.22	1.30	536.4	6.95	16.46
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	28	0.00	2800	46	MPH
						LO SPEED	26	0.00	3000	30	MPH
						IDLE	20	0.00	1500	680	RPM
						2SP IDLE					
						HI IDLE	18	0.00	500	2250	RPM
						LO IDLE	21	0.00	1300	1100	RPM
						FED 3MOD					
						HI SPEED	23	0.00	2800	31.0	DYNO HP
						LO SPEED	26	0.00	4300	15.0	DYNO HP
						IDLE - D	18	.01	1750		
						IDLE - N	18	0.00	1700		
	COMMENTS: CHOKE 3NR, FULL VAC TO DIST. TIMING +5 DEG. EGR PLUGGED										
1	6069	1976	BUIC	REGA	350	1975 FTP	.50	3.99	629.4	5.00	13.93
						HWY FET	.14	.17	435.6	6.48	20.34
	IDLE HC,PPM/HEXANE 40.					FED S CY	.30	.14	503.6	3.69	17.58
	IDLE CO,PCT (MEAS) .01					NY/NJ	.32	.05	688.2	3.69	12.88
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	38	.01	290	45	MPH
						LO SPEED	47	.01	1200	30	MPH
						IDLE	45	.01	170	660	RPM
						2SP IDLE					
						HI IDLE	27	.01	220	2250	RPM
						LO IDLE	55	.01	62	850	RPM
						FED 3MOD					
						HI SPEED	30	.02	3000	31.0	DYNO HP
						LO SPEED	45	.01	2400	15.0	DYNO HP
						IDLE - D	35	.01	270		
						IDLE - N	37	.01	75		
	COMMENTS: LIMITER CAPS OK VAC LINE TO EGR PLUGGED										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
2	6069	1976	BUIC	REGA	350	1975 FTP	.56	7.93	688.1	2.31	12.64
						HWY FET	.12	.59	466.1	3.13	18.99
	IDLE HC,PPM/HEXANE 25.					FED S CY	.31	.42	523.4	1.32	16.90
	IDLE CO,PCT (MEAS) .01					NY/NJ	.39	.05	722.4	1.31	12.26
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	15	.01	1050	45 MPH	
						LO SPEED	20	.01	290	30 MPH	
						IDLE	20	0.00	205	640 RPM	
						2SP IDLE					
						HI IDLE	10	0.00	125	2250 RPM	
						LO IDLE	35	0.00	62	840 RPM	
						FED 3MOD					
						HI SPEED	10	.01	870	31.0 DYNO HP	
						LO SPEED	15	.01	950	15.0 DYNO HP	
						IDLE - D	10	0.00	250		
						IDLE - N	15	0.00	74		
	COMMENTS: UNPLUGGED EGR LINE										
1	6070	1976	BUIC	LESA	350	1975 FTP	.48	5.89	699.1	2.29	12.50
						HWY FET	.08	.33	505.8	3.37	17.52
	IDLE HC,PPM/HEXANE 15.					FED S CY	.21	.03	530.6	1.23	16.71
	IDLE CO,PCT (MEAS) .01					NY/NJ	.37	.05	685.6	.95	12.92
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	15	.01	1550	50 MPH	
						LO SPEED	10	.01	500	35 MPH	
						IDLE	8	.01	160	600 RPM	
						2SP IDLE					
						HI IDLE	7	.01	100	2250 RPM	
						LO IDLE	15	.01	65	740 RPM	
						FED 3MOD					
						HI SPEED	10	.01	1650	31.0 DYNO HP	
						LO SPEED	8	.01	700	15.0 DYNO HP	
						IDLE - D	5	.01	175		
	COMMENTS: LIMITER CAPS OK					IDLE - N	12	.01	40		

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	---- EMISSION RESULTS (GMS/MI) ---- HC	CO	CO2	NOXC	FUEL ECON (MPG)
1	6071	1976	BUIC	RIVE	455	1975 FTP	.43	3.62	835.2	1.67	10.54
						HWY FET	.07	1.05	542.3	1.95	16.31
	IDLE HC,PPM/HEXANE 10.					FED S CY	.11	.11	667.4	.89	13.29
	IDLE CO,PCT (MEAS) .01					NY/NJ	.16	.05	902.4	.86	9.83
	IDLE CO,PCT (SPEC) 99.99										
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	13	0.00	440	50	MPH
						LO SPEED	12	0.00	98	35	MPH
						IDLE	9	0.00	69	440	RPM
						2SP IDLE					
						HI IDLE	9	0.00	145	2250	RPM
						LO IDLE	8	0.00	37	530	RPM
						FED 3MOD					
						HI SPEED	10	.01	570	36.0	DYNO HP
						LO SPEED	9	.01	170	18.0	DYNO HP
						IDLE - D	8	0.00	68		
						IDLE - N	8	0.00	32		
	COMMENTS: LIMITER CAPS OK, TIMING -6 DEG										
2	6071	1976	BUIC	RIVE	455	1975 FTP	.52	2.16	790.2	1.99	11.16
						HWY FET	.07	.27	541.8	2.29	16.36
	IDLE HC,PPM/HEXANE 10.					FED S CY	.15	.25	622.3	.87	14.24
	IDLE CO,PCT (MEAS) 0.00					NY/NJ	.23	.01	834.1	.79	10.63
	IDLE CO,PCT (SPEC) 99.99										
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	14	0.00	980	50	MPH
						LO SPEED	12	0.00	220	35	MPH
						IDLE	8	0.00	92	510	RPM
						2SP IDLE					
						HI IDLE	8	0.00	110	2250	RPM
						LO IDLE	8	0.00	51	700	RPM
						FED 3MOD					
						HI SPEED	10	0.00	1200	36.0	DYNO HP
						LO SPEED	8	0.00	380	18.0	DYNO HP
						IDLE - D	7	0.00	125		
						IDLE - N	7	0.00	52		
	COMMENTS: RESET TIMING TO SPEC										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
1	6072	1976	CADI	DEVI	500	1975 FTP	1.23	11.11	763.8	1.72	11.30
						HWY FET	.12	.81	564.3	1.80	15.68
	IDLE HC,PPM/HEXANE 25.					FED S CY	.25	.27	617.6	1.45	14.34
	IDLE CO,PCT (MEAS) .01					NY/NJ	.33	.01	779.9	1.73	11.36
	IDLE CO,PCT (SPEC) 99.99										
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	15	.01	560	50 MPH	
						LO SPEED	20	.01	340	35 MPH	
						IDLE	35	.02	100	700 RPM	
						2SP IDLE					
						HI IDLE	30	.01	82	2250 RPM	
						LO IDLE	25	.01	23	920 RPM	
						FED 3MOD					
						HI SPEED	20	.01	600	36.0 DYNO HP	
						LO SPEED	23	.01	540	18.0 DYNO HP	
						IDLE - D	35	.01	125		
						IDLE - N	25	.01	26		
	COMMENTS: LIMITER CAPS OK										
1	6073	1976	CADI	COUP	500	1975 FTP	1.00	9.50	791.9	1.84	10.96
						HWY FET	.08	.36	577.9	1.90	15.34
	IDLE HC,PPM/HEXANE 11.					FED S CY	.14	.03	617.8	1.51	14.35
	IDLE CO,PCT (MEAS) 0.00					NY/NJ	.18	.05	820.0	1.71	10.81
	IDLE CO,PCT (SPEC) 99.99										
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	12	0.00	500	50 MPH	
						LO SPEED	11	0.00	410	35 MPH	
						IDLE	8	0.00	460	720 RPM	
						2SP IDLE					
						HI IDLE	8	0.00	140	2250 RPM	
						LO IDLE	11	0.00	135	1000 RPM	
						FED 3MOD					
						HI SPEED	8	0.00	590	36.0 DYNO HP	
						LO SPEED	9	0.00	680	18.0 DYNO HP	
						IDLE - D	8	0.00	400		
						IDLE - N	9	0.00	125		
	COMMENTS: LIMITER CAPS OK										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
1	6074	1976	CHEV	CHEV	98	1975 FTP	.30	4.93	303.4	1.95	28.44
						HWY FET	.07	1.48	248.0	1.97	35.42
	IDLE HC,PPM/HEXANE 23.					FED S CY	.04	.51	239.0	1.67	36.99
	IDLE CO,PCT (MEAS) .01					NY/NJ	.11	.65	374.0	2.50	23.64
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	45	.01	1930	38 MPH	
						LO SPEED	33	.01	2050	25 MPH	
						IDLE	20	.03	300	950 RPM	
						2SP IDLE					
						HI IDLE	35	.01	320	2250 RPM	
						LO IDLE	23	.01	160	1020 RPM	
						FED 3MOD					
						HI SPEED	30	.20	850	21.0 DYNO HP	
						LO SPEED	20	.01	1350	9.0 DYNO HP	
						IDLE - D	21	.01	100		
						IDLE - N	12	.01	64		
	COMMENTS: LIMITER CAPS OK										
1	6075	1976	CHEV	CAPR	400	1975 FTP	.51	6.94	744.0	3.10	11.73
						HWY FET	.06	.68	572.2	4.00	15.48
	IDLE HC,PPM/HEXANE 9.					FED S CY	.13	.81	593.0	1.82	14.93
	IDLE CO,PCT (MEAS) .01					NY/NJ	.20	.36	744.2	1.41	11.91
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	11	.01	1600	50 MPH	
						LO SPEED	8	.01	450	35 MPH	
						IDLE	8	.01	175	625 RPM	
						2SP IDLE					
						HI IDLE	7	.01	140	2250 RPM	
						LO IDLE	9	.01	73	810 RPM	
						FED 3MOD					
						HI SPEED	10	.01	1800	36.0 DYNO HP	
						LO SPEED	8	0.00	800	18.0 DYNO HP	
						IDLE - D	7	.01	205		
						IDLE - N	8	.01	700		
	COMMENTS: LIMITER CAPS OK										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
1	6076	1976	CHEV	MONZ	140	1975 FTP	1.53	36.73	406.4	1.29	18.93
						HWY FET	.28	6.55	316.0	1.60	27.13
	IDLE HC,PPM/HEXANE 210.					FED S CY	.74	17.06	325.3	.87	25.04
	IDLE CO,PCT (MEAS) 3.50					NY/NJ	1.56	29.60	446.3	1.16	17.83
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	28	0.00	1000	38	MPH
						LO SPEED	115	1.20	760	25	MPH
						IDLE	190	3.50	100	620	RPM
						2SP IDLE					
						HI IDLE	25	.09	22	2250	RPM
						LO IDLE	140	3.00	58	840	RPM
						FED 3MOD					
						HI SPEED	17	.02	1200	26.0	DYNO HP
						LO SPEED	13	0.00	920	12.0	DYNO HP
						IDLE - D	180	3.80	41		
						IDLE - N	135	2.90	36		
	COMMENTS: LIMITER CAPS MISSING. CHOKE MALADJUSTED										
2	6076	1976	CHEV	MONZ	140	1975 FTP	1.13	30.95	427.1	1.54	18.52
						HWY FET	.10	2.17	339.5	2.01	25.86
	IDLE HC,PPM/HEXANE 120.					FED S CY	.46	11.43	341.4	.96	24.60
	IDLE CO,PCT (MEAS) 2.10					NY/NJ	1.14	22.90	424.7	1.02	19.12
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	38	.01	880	38	MPH
						LO SPEED	28	0.00	350	25	MPH
						IDLE	170	2.70	82	570	RPM
						2SP IDLE					
						HI IDLE	30	.44	30	2250	RPM
						LO IDLE	115	2.40	70	740	RPM
						FED 3MOD					
						HI SPEED	23	.01	1500	26.0	DYNO HP
						LO SPEED	22	0.00	920	12.0	DYNO HP
						IDLE - D	160	3.20	52		
						IDLE - N	110	2.50	38		
	COMMENTS: CHOKE ADJUSTED										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
3	6076	1976	CHEV	MONZ	140	1975 FTP	.46	11.61	466.1	1.58	18.27
						HWY FET	.05	.54	345.8	2.33	25.59
	IDLE HC.PPM/HEXANE 15.					FED S CY	.11	1.40	367.3	1.00	24.00
	IDLE CO.PCT (MEAS) 0.00					NY/NJ	.22	3.48	526.9	1.31	16.65
	IDLE CO.PCT (SPEC) 99.99										
							HC.	CO.	NOX.		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	90	.22	780	38	MPH
						LO SPEED	25	.01	340	25	MPH
						IDLE	17	0.00	150	600	RPM
						2SP IDLE					
						HI IDLE	23	0.00	120	2250	RPM
						LO IDLE	17	0.00	80	710	RPM
						FED 3MOD					
						HI SPEED	15	0.00	1750	26.0	DYNO HP
						LO SPEED	14	0.00	1000	12.0	DYNO HP
						IDLE - D	13	0.00	240		
						IDLE - N	13	0.00	100		
COMMENTS: IDLE CO AND RPM ADJUSTED											
1	6077	1976	CHEV	NOVA	250	1975 FTP	2.07	46.41	408.0	2.08	18.21
						HWY FET	.25	2.54	356.9	1.74	24.54
	IDLE HC.PPM/HEXANE 540.					FED S CY	1.88	31.98	321.1	1.93	23.52
	IDLE CO.PCT (MEAS) 5.00					NY/NJ	3.34	80.27	412.5	1.17	16.16
	IDLE CO.PCT (SPEC) 99.99										
							HC.	CO.	NOX.		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	20	.01	490	45	MPH
						LO SPEED	9	.01	1300	30	MPH
						IDLE	400	5.00	25	530	RPM
						2SP IDLE					
						HI IDLE	17	.01	165	2250	RPM
						LO IDLE	540	5.00	270	700	RPM
						FED 3MOD					
						HI SPEED	25	.01	500	26.0	DYNO HP
						LO SPEED	37	.01	1200	12.0	DYNO HP
						IDLE - D	365	5.00	11		
						IDLE - N	510	5.00	16		
COMMENTS: LIM CAPS MISSING. INITIAL TIMING +3 DEG											

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
2	6077	1976	CHEV	NOVA	250	1975 FTP	1.90	50.55	406.8	2.22	18.03
						HWY FET	.23	3.09	345.5	1.65	25.28
	IDLE HC,PPM/HEXANE 450.					FED S CY	1.58	37.44	318.7	2.30	23.20
	IDLE CO,PCT (MEAS) 5.00					NY/NJ	2.95	79.00	402.6	1.24	16.56
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	30	.03	420	45 MPH	
						LO SPEED	55	.14	1250	30 MPH	
						IDLE	320	5.00	37	550 RPM	
						2SP IDLE					
						HI IDLE	25	.02	280	2250 RPM	
						LO IDLE	450	5.00	36	840 RPM	
						FED 3MOD					
						HI SPEED	19	.01	420	26.0 DYNO HP	
						LO SPEED	22	.01	2075	12.0 DYNO HP	
						IDLE - D	300	5.00	70		
						IDLE - N	480	5.00	450		
	COMMENTS: TIMING ADJUSTED										
3	6077	1976	CHEV	NOVA	250	1975 FTP	.47	2.88	438.0	2.37	19.99
						HWY FET	.05	.09	354.0	1.51	25.05
	IDLE HC,PPM/HEXANE 20.					FED S CY	.07	.06	329.8	2.25	26.89
	IDLE CO,PCT (MEAS) 0.00					NY/NJ	.19	.68	448.2	1.71	19.73
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	14	0.00	450	45 MPH	
						LO SPEED	17	0.00	1025	30 MPH	
						IDLE	11	0.00	250	500 RPM	
						2SP IDLE					
						HI IDLE	7	0.00	175	2250 RPM	
						LO IDLE	20	0.00	95	650 RPM	
						FED 3MOD					
						HI SPEED	10	0.00	560	26.0 DYNO HP	
						LO SPEED	16	0.00	1350	12.0 DYNO HP	
						IDLE - D	7	0.00	330		
						IDLE - N	13	0.00	110		
	COMMENTS: IDLE CO ADJUSTED										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
1	6078	1976	CHEV	NOVA	305	1975 FTP	.46	1.98	593.1	2.77	14.85
						HWY FET	.07	.12	416.9	3.08	21.27
	IDLE HC.PPM/HEXANE 17.					FED S CY	.12	.27	482.4	1.91	18.37
	IDLE CO.PCT (MEAS) .01					NY/NJ	.22	0.00	639.9	2.40	13.85
	IDLE CO.PCT (SPEC) 99.99										
							HC.	CO.	NOX.		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	40	.01	1850	45 MPH	
						LO SPEED	30	.01	560	30 MPH	
						IDLE	23	.01	520	680 RPM	
						2SP IDLE					
						HI IDLE	27	.01	175	2250 RPM	
						LO IDLE	17	.01	135	1010 RPM	
						FED 3MOD					
						HI SPEED	25	.01	2100	26.0 DYNO HP	
						LO SPEED	20	.01	750	12.0 DYNO HP	
						IDLE - D	15	.01	680		
						IDLE - N	15	.01	135		
	COMMENTS: LIMITER CAPS OK										
1	6079	1976	CHEV	NOVA	305	1975 FTP	6.20	111.69	468.5	1.75	13.37
						HWY FET	.52	6.18	418.4	2.87	20.65
	IDLE HC.PPM/HEXANE 380.					FED S CY	4.36	56.38	364.3	1.04	19.02
	IDLE CO.PCT (MEAS) 4.00					NY/NJ	10.63	118.14	429.6	1.14	13.68
	IDLE CO.PCT (SPEC) 99.99										
							HC.	CO.	NOX.		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	32	.01	1900	46 MPH	
						LO SPEED	65	1.00	360	30 MPH	
						IDLE	420	4.50	35	470 RPM	
						2SP IDLE					
						HI IDLE	18	0.00	140	2250 RPM	
						LO IDLE	380	4.00	36	650 RPM	
						FED 3MOD					
						HI SPEED	19	.01	1100	26.0 DYNO HP	
						LO SPEED	19	.02	420	12.0 DYNO HP	
						IDLE - D	380	4.20	31		
						IDLE - N	480	4.00	38		
	COMMENTS: LIMITER CAPS MISSING. CHOKE SYSTEM MSADJUSTED										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
2	6079	1976	CHEV	NOVA	305	1975 FTP	5.21	67.37	487.5	2.06	14.55
						HWY FET	.47	5.09	419.7	3.06	20.68
						FED S CY	4.41	54.52	376.6	1.18	18.64
						NY/NJ	9.63	115.04	434.3	1.02	13.75
	IDLE HC,PPM/HEXANE 900.										
	IDLE CO,PCT (MEAS) 2.30										
	IDLE CO,PCT (SPEC) 99.99										
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	25	0.00	1750	45 MPH	
						LO SPEED	140	2.60	380	30 MPH	
						IDLE	820	7.10	31	500 RPM	
						2SP IDLE					
						HI IDLE	90	1.60	110	2250 RPM	
						LO IDLE	900	7.30	29	680 RPM	
						FED 3MOD					
						HI SPEED	43	.02	1500	26.0 DYNO HP	
						LO SPEED	50	.01	540	12.0 DYNO HP	
						IDLE - D	880	6.90	20		
	COMMENTS: CHOKE ADJUSTED					IDLE - N	1120	7.60	28		
3	6079	1976	CHEV	NOVA	305	1975 FTP	.44	2.05	552.6	2.59	15.93
						HWY FET	.08	.31	408.0	3.04	21.71
						FED S CY	.13	.13	450.7	1.58	19.67
						NY/NJ	.24	.05	615.6	1.94	14.40
	IDLE HC,PPM/HEXANE 13.										
	IDLE CO,PCT (MEAS) 0.00										
	IDLE CO,PCT (SPEC) 99.99										
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	38	.03	1900	46 MPH	
						LO SPEED	25	0.00	350	30 MPH	
						IDLE	22	0.00	380	610 RPM	
						2SP IDLE					
						HI IDLE	25	0.00	175	2250 RPM	
						LO IDLE	20	0.00	120	950 RPM	
						FED 3MOD					
						HI SPEED	20	.01	1900	26.0 DYNO HP	
						LO SPEED	16	0.00	580	12.0 DYNO HP	
						IDLE - D	13	0.00	440		
	COMMENTS: ADJUSTED IDLE CO					IDLE - N	13	0.00	115		

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
1	6080	1976	CHEV	VETT	350	1975 FTP	.68	4.01	627.9	3.72	13.95
						HWY FET	.10	1.07	496.8	5.13	17.79
	IDLE HC.PPM/HEXANE 20.					FED S CY	.17	.80	502.1	2.44	17.61
	IDLE CO.PCT (MEAS) 0.00					NY/NJ	.31	1.21	663.9	2.56	13.31
	IDLE CO.PCT (SPEC) 99.99										

KEY MODE	HC. PPM	CO. PCT	NOX. PPM		
HI SPEED	25	.01	1800	45	MPH
LO SPEED	25	.01	580	30	MPH
IDLE	20	.01	270	550	RPM
2SP IDLE					
HI IDLE	17	.01	190	2250	RPM
LO IDLE	30	.01	120	800	RPM
FED 3MOD					
HI SPEED	17	.01	1900	26.0	DYNO HP
LO SPEED	16	.01	800	12.0	DYNO HP
IDLE - D	15	.01	270		
IDLE - N	20	.01	85		

COMMENTS: LIM CAPS OK. CHOKE MALADJUSTED. VAC BREAK SET TOO RICH. TIMING +8

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
2	6080	1976	CHEV	VETT	350	1975 FTP	.40	2.77	645.1	2.28	13.64
						HWY FET	.06	.68	497.2	3.07	17.80
	IDLE HC.PPM/HEXANE 20.					FED S CY	.18	.69	508.1	1.44	17.41
	IDLE CO.PCT (MEAS) .01					NY/NJ	.35	.64	710.0	1.68	12.46
	IDLE CO.PCT (SPEC) 99.99										

KEY MODE	HC. PPM	CO. PCT	NOX. PPM		
HI SPEED	20	.01	1020	45	MPH
LO SPEED	10	.01	350	30	MPH
IDLE	12	.01	120	600	RPM
2SP IDLE					
HI IDLE	2	.01	125	2250	RPM
LO IDLE	15	.01	52	800	RPM
FED 3MOD					
HI SPEED	12	.01	1300	26.0	DYNO HP
LO SPEED	10	.01	560	12.0	DYNO HP
IDLE - D	10	.01	165		
IDLE - N	10	.01	62		

COMMENTS: VAC BREAK ADJUSTED. CHOKE ADJUSTED. TIMING ADJ

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
1	6081	1976	CHEV	MALI	305	1975 FTP	.55	4.61	587.9	2.70	14.87
						HWY FET	.07	.15	465.9	3.15	19.03
	IDLE HC,PPM/HEXANE 50.					FED S CY	.13	.21	479.8	1.74	18.47
	IDLE CO,PCT (MEAS) 0.00					NY/NJ	.20	.04	602.2	1.96	14.72
	IDLE CO,PCT (SPEC) 99.99										
						KEY MODE	HC, PPM	CO, PCT	NOX, PPM		
						HI SPEED	90	0.00	2250	50 MPH	
						LO SPEED	28	0.00	560	35 MPH	
						IDLE	23	0.00	450	520 RPM	
						2SP IDLE					
						HI IDLE	18	0.00	330	2250 RPM	
						LO IDLE	23	0.00	100	750 RPM	
						FED 3MOD					
						HI SPEED	27	0.00	2450	31.0 DYNO HP	
						LO SPEED	22	0.00	780	15.0 DYNO HP	
						IDLE - D	20	0.00	480		
	COMMENTS: LIMITER CAPS OK					IDLE - N	22	0.00	84		
1	6082	1976	CHEV	MONT	305	1975 FTP	.74	7.30	561.7	3.28	15.42
						HWY FET	.14	.94	406.6	3.79	21.73
	IDLE HC,PPM/HEXANE 20.					FED S CY	.20	1.08	454.7	2.13	19.42
	IDLE CO,PCT (MEAS) .01					NY/NJ	.26	.30	605.7	2.67	14.62
	IDLE CO,PCT (SPEC) 99.99										
						KEY MODE	HC, PPM	CO, PCT	NOX, PPM		
						HI SPEED	40	.02	3000	50 MPH	
						LO SPEED	32	.01	830	35 MPH	
						IDLE	20	.01	200	460 RPM	
						2SP IDLE					
						HI IDLE	17	.01	330	2250 RPM	
						LO IDLE	25	.01	110	660 RPM	
						FED 3MOD					
						HI SPEED	27	.01	2900	31.0 DYNO HP	
						LO SPEED	23	.01	1100	15.0 DYNO HP	
						IDLE - D	17	.01	570		
	COMMENTS: LIMITER CAPS OK					IDLE - N	18	.01	110		

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LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
3	6082	1976	CHEV	MONT	305	1975 FTP	.52	4.53	536.8	3.11	16.27
						HWY FET	.13	.28	409.1	3.75	21.65
						FED S CY	.19	.66	446.9	2.06	19.79
						NY/NJ	.29	.69	582.8	2.35	15.18
	IDLE HC.PPM/HEXANE 30.										
	IDLE CO.PCT (MEAS) .01										
	IDLE CO.PCT (SPEC) 99.99										
							HC. PPM	CO. PCT	NOX. PPM		
						KEY MODE					
						HI SPEED	40	.01	2900	50 MPH	
						LO SPEED	30	.01	770	35 MPH	
						IDLE	27	.01	350	550 RPM	
						2SP IDLE					
						HI IDLE	25	.01	150	2250 RPM	
						LO IDLE	30	.01	82	750 RPM	
						FED 3MOD					
						HI SPEED	30	.01	260	31.0 DYNO HP	
						LO SPEED	25	.01	950	15.0 DYNO HP	
						IDLE - D	20	.01	400		
						IDLE - N	25	.01	86		
	COMMENTS: ADJUST IDLE CO										
1	6083	1976	CHEV	MONT	350	1975 FTP	.66	7.36	648.5	1.91	13.40
						HWY FET	.22	2.00	461.0	2.14	19.10
						FED S CY	.47	1.30	518.0	1.07	17.02
						NY/NJ	.61	.74	697.6	1.23	12.67
	IDLE HC.PPM/HEXANE 20.										
	IDLE CO.PCT (MEAS) .01										
	IDLE CO.PCT (SPEC) 99.99										
							HC. PPM	CO. PCT	NOX. PPM		
						KEY MODE					
						HI SPEED	20	.01	1750	50 MPH	
						LO SPEED	15	.01	330	35 MPH	
						IDLE	20	.01	260	660 RPM	
						2SP IDLE					
						HI IDLE	12	.01	120	2250 RPM	
						LO IDLE	80	.01	28	940 RPM	
						FED 3MOD					
						HI SPEED	20	.01	1500	31.0 DYNO HP	
						LO SPEED	15	.01	400	15.0 DYNO HP	
						IDLE - D	18	.01	220		
						IDLE - N	60	.01	26		
	COMMENTS: LIMITER CAPS OK										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
5	6083	1976	CHEV	MONT	350	1975 FTP	1.44	25.59	584.1	3.76	14.11
						HWY FET	.31	2.34	441.2	5.46	19.91
	IDLE HC,PPM/HEXANE 135.					FED S CY	.63	1.32	472.4	2.76	18.63
	IDLE CO,PCT (MEAS) .01					NY/NJ	.81	1.16	630.6	2.70	13.98
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	40	.02	3500	50 MPH	
						LO SPEED	20	.05	1450	35 MPH	
						IDLE	22	.01	85	580 RPM	
						2SP IDLE					
						HI IDLE	15	.01	240	2250 RPM	
						LO IDLE	135	.01	4	760 RPM	
						FED 3MOD					
						HI SPEED	25	.02	3600	31.0 DYNO HP	
						LO SPEED	18	.01	1800	15.0 DYNO HP	
						IDLE - D	25	.01	800		
						IDLE - N	135	.01	450		
	COMMENTS: +5DEG INITIAL TIM 3NR CHOKE INDEX PLUG EGR FULL VAC ADVNC TO DIST										
6	6083	1976	CHEV	MONT	350	1975 FTP	1.09	14.23	601.4	1.98	14.15
						HWY FET	.28	2.05	458.0	2.68	19.21
	IDLE HC,PPM/HEXANE 165.					FED S CY	.59	1.72	478.1	1.24	18.39
	IDLE CO,PCT (MEAS) 0.00					NY/NJ	.96	1.33	621.0	1.18	14.18
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	32	.02	1800	50 MPH	
						LO SPEED	27	.04	170	35 MPH	
						IDLE	31	0.00	135	510 RPM	
						2SP IDLE					
						HI IDLE	17	.02	110	2250 RPM	
						LO IDLE	135	0.00	34	850 RPM	
						FED 3MOD					
						HI SPEED	22	.02	1700	31.0 DYNO HP	
						LO SPEED	18	.01	380	15.0 DYNO HP	
						IDLE - D	35	0.00	130		
						IDLE - N	150	0.00	16		
	COMMENTS: TIMING +5 DEG										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
7	6083	1976	CHEV	MONT	350	1975 FTP	.84	12.87	542.7	2.85	15.69
						HWY FET	.20	1.51	404.8	4.06	21.77
	IDLE HC,PPM/HEXANE 110.					FED S CY	.48	1.01	460.1	2.19	19.16
	IDLE CO,PCT (MEAS) 0.00					NY/NJ	1.09	2.89	604.0	1.83	14.50
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	27	.02	2700	50	MPH
						LO SPEED	24	1.90	1500	35	MPH
						IDLE	18	0.00	310	620	RPM
						2SP IDLE					
						HI IDLE	9	.01	98	2250	RPM
						LO IDLE	120	0.00	56	830	RPM
						FED 3MOD					
						HI SPEED	19	.02	2800	31.0	DYNO HP
						LO SPEED	17	.01	1450	15.0	DYNO HP
						IDLE - D	16	0.00	470		
						IDLE - N	75	0.00	110		
	COMMENTS: EGR LINE PLUGGED										
8	6083	1976	CHEV	MONT	350	1975 FTP	1.00	20.36	604.1	1.39	13.88
						HWY FET	.16	1.03	451.5	1.93	19.57
	IDLE HC,PPM/HEXANE 80.					FED S CY	.37	1.68	471.1	.81	18.69
	IDLE CO,PCT (MEAS) .01					NY/NJ	.60	2.63	622.0	.81	14.13
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	30	.02	1800	50	MPH
						LO SPEED	20	.02	300	35	MPH
						IDLE	20	.01	160	630	RPM
						2SP IDLE					
						HI IDLE	15	.01	120	2250	RPM
						LO IDLE	80	.01	33	850	RPM
						FED 3MOD					
						HI SPEED	17	.01	1500	31.0	DYNO HP
						LO SPEED	13	.01	400	15.0	DYNO HP
						IDLE - D	15	.01	150		
						IDLE - N	90	.01	28		
	COMMENTS: CHOKE 3NR										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
9	6083	1976	CHEV	MONT	350	1975 FTP	.74	10.90	599.7	1.42	14.33
						HWY FET	.18	1.14	452.6	1.76	19.51
						FED S CY	.46	.82	483.2	.83	18.26
						NY/NJ	.68	1.66	642.5	.87	13.71
	IDLE HC,PPM/HEXANE 125.										
	IDLE CO,PCT (MEAS) .01										
	IDLE CO,PCT (SPEC) 99.99										
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	75	.02	1670	50 MPH	
						LO SPEED	80	.02	280	35 MPH	
						IDLE	70	.01	140	580 RPM	
						2SP IDLE					
						HI IDLE	45	.01	110	2250 RPM	
						LO IDLE	125	.01	160	780 RPM	
						FED 3MOD					
						HI SPEED	40	.01	1350	31.0 DYNO HP	
						LO SPEED	30	0.00	400	15.0 DYNO HP	
						IDLE - D	30	0.00	100		
						IDLE - N	105	0.00	16		
	COMMENTS: FULL VAC ADVNCE TO DIST										
1	6084	1976	CHEV	MONT	350	1975 FTP	4.07	138.85	517.9	1.43	11.85
						HWY FET	1.02	34.96	436.6	1.76	17.94
						FED S CY	3.67	113.99	404.3	.64	14.92
						NY/NJ	4.82	159.89	526.7	.75	11.19
	IDLE HC,PPM/HEXANE 370.										
	IDLE CO,PCT (MEAS) 5.00										
	IDLE CO,PCT (SPEC) 99.99										
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	33	.01	2600	50 MPH	
						LO SPEED	130	3.60	120	35 MPH	
						IDLE	310	5.00	10	590 RPM	
						2SP IDLE					
						HI IDLE	115	5.00	9	2250 RPM	
						LO IDLE	370	5.00	13	1000 RPM	
						FED 3MOD					
						HI SPEED	35	.01	2150	31.0 DYNO HP	
						LO SPEED	120	2.30	110	15.0 DYNO HP	
						IDLE - D	280	7.50	10		
						IDLE - N	360	7.50	12		
	COMMENTS: LIMITER CAPS MISSING, TIMING +4 DEG										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
2	6084	1976	CHEV	MONT	350	1975 FTP	3.14	117.93	584.1	1.35	11.39
						HWY FET	.43	16.44	474.4	1.86	17.69
	IDLE HC,PPM/HEXANE 110.					FED S CY	2.65	81.22	451.1	.71	15.12
	IDLE CO,PCT (MEAS) 3.10					NY/NJ	2.73	69.49	658.6	.94	11.43
	IDLE CO,PCT (SPEC) 99.99										
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	6	0.00	1500	50 MPH	
						LO SPEED	65	2.70	210	35 MPH	
						IDLE	125	2.60	76	680 RPM	
						2SP IDLE					
						HI IDLE	80	3.30	10	2250 RPM	
						LO IDLE	105	2.90	8	1100 RPM	
						FED 3MOD					
						HI SPEED	8	0.00	1400	31.0 DYNO HP	
						LO SPEED	80	2.30	145	15.0 DYNO HP	
						IDLE - D	125	3.00	16		
						IDLE - N	100	2.40	9		
	COMMENTS: TIMING ADJUSTED										
3	6084	1976	CHEV	MONT	350	1975 FTP	1.63	49.60	590.5	1.07	13.18
						HWY FET	.40	15.67	458.9	1.39	18.31
	IDLE HC,PPM/HEXANE 13.					FED S CY	.98	26.43	475.6	.69	17.06
	IDLE CO,PCT (MEAS) 0.00					NY/NJ	1.20	31.40	621.7	.63	13.15
	IDLE CO,PCT (SPEC) 99.99										
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	18	0.00	1350	50 MPH	
						LO SPEED	100	1.85	185	35 MPH	
						IDLE	13	.01	205	570 RPM	
						2SP IDLE					
						HI IDLE	65	1.80	84	2250 RPM	
						LO IDLE	19	.01	53	750 RPM	
						FED 3MOD					
						HI SPEED	15	.01	1300	31.0 DYNO HP	
						LO SPEED	40	.80	250	15.0 DYNO HP	
						IDLE - D	9	0.00	165		
						IDLE - N	13	0.00	45		
	COMMENTS: VAC HOSE TO DIAPH WAS DSC. RECONNECTED AND NEW LEAN DROP IDLE										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	---- EMISSION RESULTS (GMS/MI) ---- HC	CO	CO2	NOXC	FUEL ECON (MPG)
4	6084	1976	CHEV	MONT	350	1975 FTP	1.83	54.95	610.1	1.19	12.64
						HWY FET	.43	16.95	489.6	1.54	17.15
	IDLE HC,PPM/HEXANE 4.					FED S CY	1.18	36.40	480.6	.68	16.39
	IDLE CO,PCT (MEAS) 0.00					NY/NJ	1.24	32.22	636.7	.63	12.84
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	17	.01	1250	50 MPH	
						LO SPEED	80	1.60	230	35 MPH	
						IDLE	8	0.00	195	550 RPM	
						2SP IDLE					
						HI IDLE	60	1.80	88	2250 RPM	
						LO IDLE	10	0.00	72	700 RPM	
						FED 3MOD					
						HI SPEED	12	.01	1400	31.0 DYNO HP	
						LO SPEED	15	0.00	160	15.0 DYNO HP	
						IDLE - D	3	.01	230		
						IDLE - N	4	0.00	70		
	COMMENTS: MAJOR TUNE UP										
1	6085	1976	CHEV	MONT	400	1975 FTP	1.68	40.83	684.4	3.42	11.77
						HWY FET	.15	2.45	495.0	4.45	17.77
	IDLE HC,PPM/HEXANE 150.					FED S CY	1.41	31.25	492.4	1.82	16.26
	IDLE CO,PCT (MEAS) 4.10					NY/NJ	2.50	61.20	634.5	2.01	12.02
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	23	.01	2450	50 MPH	
						LO SPEED	21	.01	1025	35 MPH	
						IDLE	170	5.00	66	610 RPM	
						2SP IDLE					
						HI IDLE	20	.01	230	2250 RPM	
						LO IDLE	150	4.10	50	840 RPM	
						FED 3MOD					
						HI SPEED	25	.01	2150	31.0 DYNO HP	
						LO SPEED	22	.01	1300	15.0 DYNO HP	
						IDLE - D	168	5.20	44		
						IDLE - N	160	4.30	36		
	COMMENTS: LIMITER CAPS MSSNG, EGR LINE PLUGGED, TIMING -4 DEG										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
2	6085	1976	CHEV	MONT	400	1975 FTP	2.04	50.67	607.0	2.28	12.81
						HWY FET	.20	3.09	484.3	3.18	18.12
	IDLE HC,PPM/HEXANE 175.					FED S CY	1.74	35.87	488.9	.87	16.11
	IDLE CO,PCT (MEAS) 4.80					NY/NJ	2.86	64.96	605.1	.94	12.39
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	27	.01	1500	50 MPH	
						LO SPEED	19	0.00	360	35 MPH	
						IDLE	150	4.60	48	610 RPM	
						2SP IDLE					
						HI IDLE	13	0.00	105	2250 RPM	
						LO IDLE	175	5.00	28	850 RPM	
						FED 3MOD					
						HI SPEED	20	.01	1200	31.0 DYNO HP	
						LO SPEED	16	.01	530	15.0 DYNO HP	
						IDLE - D	155	4.90	36		
						IDLE - N	175	4.80	19		
	COMMENTS: UNPLUGGED VAC LINE TO EGR, TIMING ADJUSTED										
3	6085	1976	CHEV	MONT	400	1975 FTP	.37	6.16	637.8	2.20	13.68
						HWY FET	.03	.56	475.8	2.81	18.61
	IDLE HC,PPM/HEXANE 25.					FED S CY	.11	.84	513.0	1.07	17.24
	IDLE CO,PCT (MEAS) 0.00					NY/NJ	.16	.47	645.7	1.23	13.72
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	18	0.00	1500	50 MPH	
						LO SPEED	11	0.00	340	35 MPH	
						IDLE	12	0.00	120	580 RPM	
						2SP IDLE					
						HI IDLE	10	0.00	125	2250 RPM	
						LO IDLE	14	0.00	38	710 RPM	
						FED 3MOD					
						HI SPEED	13	0.00	1500	31.0 DYNO HP	
						LO SPEED	10	0.00	500	15.0 DYNO HP	
						IDLE - D	9	0.00	100		
						IDLE - N	12	0.00	35		
	COMMENTS: ADJUSTED IDLE CO										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
1	6086	1976	CHEV	IMPA	350	1975 FTP	.58	11.70	658.6	1.67	13.07
						HWY FET	.06	.58	507.7	2.32	17.44
	IDLE HC,PPM/HEXANE 35.					FED S CY	.15	.40	536.0	1.02	16.53
	IDLE CO,PCT (MEAS) 0.00					NY/NJ	.24	.13	691.6	.91	12.82
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	20	.01	1450	50 MPH	
						LO SPEED	15	.01	260	35 MPH	
						IDLE	12	0.00	64	580 RPM	
						2SP IDLE					
						HI IDLE	20	0.00	100	2250 RPM	
						LO IDLE	35	0.00	22	800 RPM	
						FED 3MOD					
						HI SPEED	10	.01	1325	31.0 DYNO HP	
						LO SPEED	10	.01	360	15.0 DYNO HP	
						IDLE - D	7	.01	75		
						IDLE - N	25	.01	24		
	COMMENTS: LIMITER CAPS OK										
1	6087	1976	CHEV	IMPA	350	1975 FTP	1.98	52.53	636.9	2.00	12.23
						HWY FET	.19	3.71	508.0	3.11	17.25
	IDLE HC,PPM/HEXANE 110.					FED S CY	1.23	27.82	497.3	1.21	16.29
	IDLE CO,PCT (MEAS) 3.20					NY/NJ	2.52	53.20	651.4	.95	11.94
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	30	.01	2000	50 MPH	
						LO SPEED	25	.01	475	35 MPH	
						IDLE	140	3.80	71	675 RPM	
						2SP IDLE					
						HI IDLE	42	.01	125	2250 RPM	
						LO IDLE	110	3.20	48	1000 RPM	
						FED 3MOD					
						HI SPEED	23	.01	1950	31.0 DYNO HP	
						LO SPEED	17	.01	600	15.0 DYNO HP	
						IDLE - D	140	3.60	80		
						IDLE - N	115	2.40	64		
	COMMENTS: LIM CAPS BRKN, CHOKE MALADJUSTED, TIMING +4 DEG										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
2	6087	1976	CHEV	IMPA	350	1975 FTP	1.64	44.37	658.6	1.95	12.10
						HWY FET	.14	2.73	513.6	3.09	17.12
	IDLE HC,PPM/HEXANE 120.					FED S CY	1.06	19.24	546.2	1.22	15.31
	IDLE CO,PCT (MEAS) 2.40					NY/NJ	2.16	41.12	703.0	.98	11.46
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	24	0.00	1900	50 MPH	
						LO SPEED	17	0.00	480	35 MPH	
						IDLE	130	3.70	62	550 RPM	
						2SP IDLE					
						HI IDLE	37	.01	160	2250 RPM	
						LO IDLE	110	2.90	45	850 RPM	
						FED 3MOD					
						HI SPEED	16	0.00	1500	31.0 DYNO HP	
						LO SPEED	18	.01	500	15.0 DYNO HP	
						IDLE - D	135	2.00	115		
						IDLE - N	120	2.40	46		
	COMMENTS: RESET TIMING TO SPEC, CHOKE ADJUSTED										
3	6087	1976	CHEV	IMPA	350	1975 FTP	.61	12.15	694.3	2.10	12.41
						HWY FET	.05	.33	458.7	2.49	19.32
	IDLE HC,PPM/HEXANE 64.					FED S CY	.14	.30	557.2	1.34	15.90
	IDLE CO,PCT (MEAS) 0.00					NY/NJ	.27	.22	679.3	1.09	13.04
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	24	.01	1600	50 MPH	
						LO SPFED	15	.01	430	35 MPH	
						IDLE	6	.01	185	610 RPM	
						2SP IDLE					
						HI IDLE	50	.01	150	2250 RPM	
						LO IDLE	34	.01	78	850 RPM	
						FED 3MOD					
						HI SPEED	25	.01	1650	31.0 DYNO HP	
						LO SPEED	22	.01	380	15.0 DYNO HP	
						IDLE - D	15	.01	110		
						IDLE - N	9	.01	64		
	COMMENTS: IDLE CO ADJUSTED										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
1	6088	1976	CHEV	CAPR	350	1975 FTP	.35	3.30	663.9	3.06	13.24
						HWY FET	.05	.47	463.5	3.06	19.11
	IDLE HC,PPM/HEXANE 17.					FED S CY	.09	.19	530.7	1.94	16.70
	IDLE CO,PCT (MEAS) 0.00					NY/NJ	.14	.48	665.5	1.62	13.31
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	20	.01	1800	50 MPH	
						LO SPEED	15	.01	440	35 MPH	
						IDLE	11	0.00	280	660 RPM	
						2SP IDLE					
						HI IDLE	17	0.00	125	2250 RPM	
						LO IDLE	12	0.00	72	1000 RPM	
						FED 3MOD					
						HI SPEED	15	.01	1450	31.0 DYNO HP	
						LO SPEED	10	0.00	460	15.0 DYNO HP	
						IDLE - D	8	0.00	300		
						IDLE - N	8	0.00	280		
	COMMENTS: LIMITER CAPS OK INITIAL TIMING +6DEG										
2	6088	1976	CHEV	CAPR	350	1975 FTP	.35	4.10	653.8	2.73	13.42
						HWY FET	.05	.42	479.3	3.03	18.49
	IDLE HC,PPM/HEXANE 12.					FED S CY	.14	2.08	508.1	1.49	17.34
	IDLE CO,PCT (MEAS) .01					NY/NJ	.09	.13	620.2	1.57	14.30
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	24	.01	1800	50 MPH	
						LO SPEED	15	.01	420	35 MPH	
						IDLE	10	.01	210	600 RPM	
						2SP IDLE					
						HI IDLE	14	.01	135	2250 RPM	
						LO IDLE	12	.01	70	790 RPM	
						FED 3MOD					
						HI SPEED	15	.01	1500	31.0 DYNO HP	
						LO SPEED	10	.01	420	15.0 DYNO HP	
						IDLE - D	8	.01	180		
						IDLE - N	8	.01	64		
	COMMENTS: RESET TIMING TO SPEC										

APPENDIx H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
1	6089	1976	CHEV	MONT	400	1975 FTP	1.53	27.06	623.2	2.57	13.24
						HWY FET	.15	1.89	471.2	3.31	18.70
	IDLE HC,PPM/HEXANE 90.					FED S CY	1.16	16.94	507.3	1.37	16.51
	IDLE CO,PCT (MEAS) 1.10					NY/NJ	2.42	35.31	668.0	1.65	12.14
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	20	.02	800	50 MPH	
						LO SPEED	20	.02	150	35 MPH	
						IDLE	90	1.30	10	410 RPM	
						2SP IDLE					
						HI IDLE	18	.02	75	2250 RPM	
						LO IDLE	90	1.10	4	560 RPM	
						FED 3MOD					
						HI SPEED	16	.02	760	31.0 DYNO HP	
						LO SPEED	15	.02	270	15.0 DYNO HP	
						IDLE - D	80	1.30	14		
						IDLE - N	90	1.05	2		
	COMMENTS: LIMITER CAPS MISSNG										
3	6089	1976	CHEV	MONT	400	1975 FTP	.35	1.83	663.4	2.78	13.30
						HWY FET	.05	.35	475.5	3.02	18.64
	IDLE HC,PPM/HEXANE 15.					FED S CY	.14	.99	531.3	1.61	16.64
	IDLE CO,PCT (MEAS) .01					NY/NJ	.24	1.23	700.9	1.80	12.61
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	14	0.00	1050	50 MPH	
						LO SPEED	12	0.00	215	35 MPH	
						IDLE	12	0.00	155	400 RPM	
						2SP IDLE					
						HI IDLE	9	.01	145	2250 RPM	
						LO IDLE	11	0.00	46	540 RPM	
						FED 3MOD					
						HI SPEED	13	.01	950	31.0 DYNO HP	
						LO SPEED	12	.01	460	15.0 DYNO HP	
						IDLE - D	19	.01	190		
						IDLE - N	22	.01	46		
	COMMENTS: ADJUSTED IDLE CO										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)	
							---- EMISSION RESULTS (GMS/MI) ----					
1	6090	1976	OLDS	CUTL	260	1975 FTP	.47	4.88	599.5	2.16	14.58	
						HWY FET	.10	.73	456.5	2.58	19.38	
	IDLE HC,PPM/HEXANE 10.					FED S CY	.15	.38	459.4	1.51	19.28	
	IDLE CO,PCT (MEAS) 0.00					NY/NJ	.27	.09	609.1	1.38	14.55	
	IDLE CO,PCT (SPEC) 99.99											
							HC,	CO,	NOX,			
						KEY MODE	PPM	PCT	PPM			
						HI SPEED	17	0.00	580	45	MPH	
						LO SPEED	20	0.00	480	30	MPH	
						IDLE	7	0.00	260	600	RPM	
						2SP IDLE						
						HI IDLE	20	0.00	210	2250	RPM	
						LO IDLE	10	0.00	84	820	RPM	
						FED 3MOD						
						HI SPEED	12	0.00	1025	31.0	DYNO HP	
						LO SPEED	10	0.00	470	15.0	DYNO HP	
						IDLE - D	5	0.00	260			
						IDLE - N	7	0.00	70			
	COMMENTS: LIMITER CAPS OK											
5	6090	1976	OLDS	CUTL	260	1975 FTP	.60	5.94	537.5	8.42	16.18	
						HWY FET	.11	.35	427.6	10.18	20.71	
	IDLE HC,PPM/HEXANE 35.					FED S CY	.14	.14	424.5	6.80	20.88	
	IDLE CO,PCT (MEAS) .01					NY/NJ	.20	.01	539.8	6.98	16.42	
	IDLE CO,PCT (SPEC) 99.99											
							HC,	CO,	NOX,			
						KEY MODE	PPM	PCT	PPM			
						HI SPEED	32	.01	4500	45	MPH	
						LO SPEED	27	.01	2600	30	MPH	
						IDLE	20	.01	960	560	RPM	
						2SP IDLE						
						HI IDLE	12	.01	520	2250	RPM	
						LO IDLE	35	.01	260	750	RPM	
						FED 3MOD						
						HI SPEED	25	.01	4200	31.0	DYNO HP	
						LO SPEED	25	.01	4500	15.0	DYNO HP	
						IDLE - D	12	.01	130			
						IDLE - N	1	.01	370			
	COMMENTS: +5DEG TIMING, PLUG EGR, 3NR CHOKE INDEX FULL VAC ADVANCE TO DIST											

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
6	6090	1976	OLDS	CUTL	260	1975 FTP	.50	3.97	549.1	2.48	15.94
						HWY FET	.10	.24	426.5	2.86	20.78
	IDLE HC.PPM/HEXANE 20.					FED S CY	.13	.01	419.7	1.80	21.13
	IDLE CO.PCT (MEAS) .01					NY/NJ	.29	.82	558.7	1.59	15.82
	IDLE CO.PCT (SPEC) 99.99										
						KEY MODE	HC. PPM	CO. PCT	NOX. PPM		
						HI SPEED	25	.01	750	45	MPH
						LO SPEED	21	.01	515	30	MPH
						IDLE	15	.01	200	530	RPM
						2SP IDLE					
						HI IDLE	40	.01	240	2250	RPM
						LO IDLE	18	.01	78	700	RPM
						FED 3MOD					
						HI SPEED	22	.01	1000	31.0	DYNO HP
						LO SPEED	20	.01	780	15.0	DYNO HP
						IDLE - D	13	.01	260		
						IDLE - N	12	.01	720		
	COMMENTS: TIMING +5 DEG										
7	6090	1976	OLDS	CUTL	260	1975 FTP	.48	3.90	562.6	7.68	15.56
						HWY FET	.11	.51	427.2	9.25	20.72
	IDLE HC.PPM/HEXANE 11.					FED S CY	.15	.11	431.3	6.43	20.55
	IDLE CO.PCT (MEAS) .01					NY/NJ	.31	.99	559.0	5.37	15.81
	IDLE CO.PCT (SPEC) 99.99										
						KEY MODE	HC. PPM	CO. PCT	NOX. PPM		
						HI SPEED	32	.01	3650	45	MPH
						LO SPEED	27	.01	2300	30	MPH
						IDLE	15	.01	420	600	RPM
						2SP IDLE					
						HI IDLE	12	.01	430	2250	RPM
						LO IDLE	15	.01	105	810	RPM
						FED 3MOD					
						HI SPEED	23	.01	3300	31.0	DYNO HP
						LO SPEED	22	.01	3900	15.0	DYNO HP
						IDLE - D	10	.01	500		
	COMMENTS: PLUG EGR HOSE					IDLE - N	11	.01	150		

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
8	6090	1976	OLDS	CUTL	260	1975 FTP	.46	6.93	727.0	1.77	12.00
						HWY FET	.07	.59	519.3	1.97	17.05
	IDLE HC,PPM/HEXANE 15.					FED S CY	.14	.72	567.6	1.03	15.59
	IDLE CO,PCT (MEAS) 0.00					NY/NJ	.22	.39	709.3	1.06	12.49
	IDLE CO,PCT (SPEC) 99.99										*
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	9	0.00	350	45 MPH	
						LO SPEED	8	0.00	155	30 MPH	
						IDLE	8	0.00	165	800 RPM	
						2SP IDLE					
						HI IDLE	8	0.00	100	2250 RPM	
						LO IDLE	8	0.00	61	650 RPM	
						FED 3MOD					
						HI SPEED	7	0.00	600	31.0 DYNO HP	
						LO SPEED	8	0.00	360	15.0 DYNO HP	
						IDLE - D	7	0.00	180		
						IDLE - N	7	0.00	63		
	COMMENTS: CHOKE 3 NOTCHES RICHER										
9	6090	1976	OLDS	CUTL	260	1975 FTP	.54	3.03	678.7	2.09	12.95
						HWY FET	.08	.36	511.3	1.97	17.33
	IDLE HC,PPM/HEXANE 15.					FED S CY	.23	.90	530.8	1.18	16.66
	IDLE CO,PCT (MEAS) 0.00					NY/NJ	.28	.01	663.9	1.26	13.35
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	17	0.00	420	45 MPH	
						LO SPEED	25	0.00	180	30 MPH	
						IDLE	12	0.00	130	540 RPM	
						2SP IDLE					
						HI IDLE	33	0.00	130	2250 RPM	
						LO IDLE	12	0.00	72	680 RPM	
						FED 3MOD					
						HI SPEED	12	0.00	710	31.0 DYNO HP	
						LO SPEED	17	0.00	380	15.0 DYNO HP	
						IDLE - D	12	0.00	195		
						IDLE - N	10	0.00	71		
	COMMENTS: FULL VAC ADVANCE TO DIST										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC		FUEL ECON (MPG)
1	6091	1976	OLDS	VIST	350	1975 FTP	.62	6.53	643.7	1.86		13.53
						HWY FET	.12	1.96	490.2	1.84		17.98
	IDLE HC.PPM/HEXANE 30.					FED S CY	.18	.37	519.4	1.18		17.05
	IDLE CO.PCT (MEAS) .01					NY/NJ	.25	.09	658.2	1.26		13.46
	IDLE CO.PCT (SPEC) 99.99											
							HC.	CO.	NOX.			
						KEY MODE	PPM	PCT	PPM			
						HI SPEED	25	.04	860	50	MPH	
						LO SPEED	21	.01	360	35	MPH	
						IDLE	18	.01	280	600	RPM	
						2SP IDLE						
						HI IDLE	32	.01	100	2250	RPM	
						LO IDLE	18	.01	60	800	RPM	
						FED 3MOD						
						HI SPEED	22	.01	980	31.0	DYNO HP	
						LO SPEED	20	.01	560	15.0	DYNO HP	
						IDLE - D	18	.01	400			
						IDLE - N	22	.01	46			
	COMMENTS: LIMITER CAPS OK INITIAL TIMING -4DEG											
2	6091	1976	OLDS	VIST	350	1975 FTP	.72	6.89	634.7	2.03		13.70
						HWY FET	.14	2.30	494.1	1.95		17.81
	IDLE HC.PPM/HEXANE 15.					FED S CY	.17	.75	501.2	1.21		17.65
	IDLE CO.PCT (MEAS) 0.00					NY/NJ	.20	.05	650.1	1.31		13.64
	IDLE CO.PCT (SPEC) 99.99											
							HC.	CO.	NOX.			
						KEY MODE	PPM	PCT	PPM			
						HI SPEED	30	.01	1025	50	MPH	
						LO SPEED	15	0.00	370	35	MPH	
						IDLE	15	0.00	210	550	RPM	
						2SP IDLE						
						HI IDLE	25	0.00	90	2250	RPM	
						LO IDLE	15	0.00	52	720	RPM	
						FED 3MOD						
						HI SPEED	12	.01	960	31.0	DYNO HP	
						LO SPEED	13	0.00	580	15.0	DYNO HP	
						IDLE - D	10	0.00	260			
						IDLE - N	15	0.00	56			
	COMMENTS: ADJUSTED INITIAL TIMING TO SPEC											

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
5	6091	1976	OLDS	VIST	350	1975 FTP	.85	8.47	606.6	7.92	14.26
						HWY FET	.16	.84	482.0	9.54	18.35
						FED S CY	.22	.25	476.3	6.24	18.59
						NY/NJ	.27	.36	603.0	5.24	14.69
IDLE HC,PPM/HEXANE 25.											
IDLE CO,PCT (MEAS) .01											
IDLE CO,PCT (SPEC) 99.99											
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	25	.01	4200	50 MPH	
						LO SPEED	20	.01	2000	35 MPH	
						IDLE	15	.01	250	480 RPM	
						2SP IDLE					
						HI IDLE	12	.01	340	2250 RPM	
						LO IDLE	25	.01	82	600 RPM	
						FED 3MOD					
						HI SPEED	24	.01	4200	31.0 DYNO HP	
						LO SPEED	23	.01	3900	15.0 DYNO HP	
						IDLE - D	15	.01	260		
						IDLE - N	22	.01	125		
COMMENTS: +5DEG TIMING PLUG EGR 3NR ON CHOKE FULL VAC ADV TO DIST											
6	6091	1976	OLDS	VIST	350	1975 FTP	.68	4.96	627.6	2.25	13.92
						HWY FET	.14	2.00	478.7	2.24	18.40
						FED S CY	.15	.38	478.5	1.25	18.51
						NY/NJ	.86	6.17	627.3	1.34	13.87
IDLE HC,PPM/HEXANE 12.											
IDLE CO,PCT (MEAS) 0.00											
IDLE CO,PCT (SPEC) 99.99											
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	19	.02	1050	50 MPH	
						LO SPEED	15	0.00	340	35 MPH	
						IDLE	8	0.00	120	480 RPM	
						2SP IDLE					
						HI IDLE	33	0.00	88	2250 RPM	
						LO IDLE	12	0.00	57	620 RPM	
						FED 3MOD					
						HI SPEED	13	0.00	1050	31.0 DYNO HP	
						LO SPEED	13	0.00	680	15.0 DYNO HP	
						IDLE - D	8	0.00	160		
						IDLE - N	15	0.00	66		
COMMENTS: TIMING +5 DEG											

APPENDIx H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
7	6091	1976	OLDS	VIST	350	1975 FTP	.67	4.61	645.2	7.75	13.56
						HWY FET	.12	.18	480.3	9.46	18.45
						FED S CY	.18	.23	508.7	6.56	17.42
						NY/NJ	.29	.32	675.0	5.05	13.12
	IDLE HC,PPM/HEXANE 15.										
	IDLE CO,PCT (MEAS) .01										
	IDLE CO,PCT (SPEC) 99.99										
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	22	.01	2800	50 MPH	
						LO SPEED	13	0.00	1250	35 MPH	
						IDLE	10	0.00	560	560 RPM	
						2SP IDLE					
						HI IDLE	35	0.00	310	2250 RPM	
						LO IDLE	13	0.00	290	630 RPM	
						FED 3MOD					
						HI SPEED	15	0.00	2750	31.0 DYNO HP	
						LO SPEED	14	0.00	1750	15.0 DYNO HP	
						IDLE - D	11	0.00	600		
						IDLE - N	18	0.00	320		
	COMMENTS: PLUG EGR										
8	6091	1976	OLDS	VIST	350	1975 FTP	.78	9.86	670.2	2.11	12.90
						HWY FET	.14	2.63	512.0	2.13	17.18
						FED S CY	.19	.48	524.8	1.37	16.87
						NY/NJ	.27	.27	694.3	1.37	12.76
	IDLE HC,PPM/HEXANE 15.										
	IDLE CO,PCT (MEAS) 0.00										
	IDLE CO,PCT (SPEC) 99.99										
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	27	.02	860	50 MPH	
						LO SPEED	17	0.00	340	35 MPH	
						IDLE	9	0.00	165	550 RPM	
						2SP IDLE					
						HI IDLE	27	0.00	100	2250 RPM	
						LO IDLE	13	0.00	44	700 RPM	
						FED 3MOD					
						HI SPEED	13	0.00	860	31.0 DYNO HP	
						LO SPEED	12	0.00	480	15.0 DYNO HP	
						IDLE - D	7	0.00	240		
						IDLE - N	6	0.00	89		
	COMMENTS: CHOKE 3 NOTCHES RICHER										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
9	6091	1976	OLDS	VIST	350	1975 FTP	.68	6.92	663.2	1.93	13.13
						HWY FET	.12	1.79	498.8	1.94	17.68
	IDLE HC,PPM/HEXANE 20.					FED S CY	.17	.52	508.6	1.17	17.40
	IDLE CO,PCT (MEAS) 0.00					NY/NJ	.24	.01	685.0	1.33	12.94
	IDLE CO,PCT (SPEC) 99.99										
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	21	0.00	900	50 MPH	
						LO SPEED	17	0.00	350	35 MPH	
						IDLE	11	0.00	170	620 RPM	
						2SP IDLE					
						HI IDLE	30	0.00	98	2250 RPM	
						LO IDLE	17	0.00	46	850 RPM	
						FED 3MOD					
						HI SPEED	17	0.00	890	31.0 DYNO HP	
						LO SPEED	13	0.00	470	15.0 DYNO HP	
						IDLE - D	10	0.00	220		
						IDLE - N	19	0.00	95		
	COMMENTS: FULL VAC ADVNCE TO DIST										
1	6092	1976	OLDS	CUTL	350	1975 FTP	.53	1.03	544.5	2.10	16.20
						HWY FET	.07	.12	416.1	2.84	21.31
	IDLE HC,PPM/HEXANE 40.					FED S CY	.10	.03	427.5	1.15	20.75
	IDLE CO,PCT (MEAS) 0.00					NY/NJ	.14	.00	552.8	1.19	16.04
	IDLE CO,PCT (SPEC) 99.99										
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	45	.01	1250	46 MPH	
						LO SPEED	30	0.00	225	30 MPH	
						IDLE	18	0.00	190	550 RPM	
						2SP IDLE					
						HI IDLE	40	0.00	155	2250 RPM	
						LO IDLE	23	0.00	640	750 RPM	
						FED 3MOD					
						HI SPEED	20	0.00	1450	31.0 DYNO HP	
						LO SPEED	15	0.00	500	15.0 DYNO HP	
						IDLE - D	10	0.00	300		
						IDLE - N	13	0.00	78		
	COMMENTS: LIM CAPS OK INT TIMING -3DEG CHOKE SYSTEM MALADJUSTED										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
2	6092	1976	OLDS	CUTL	350	1975 FTP	.46	1.02	559.6	2.59	15.77
						HWY FET	.07	.05	432.4	3.44	20.51
	IDLE HC,PPM/HEXANE 22.					FED S CY	.10	.03	482.9	1.61	18.37
	IDLE CO,PCT (MEAS) 0.00					NY/NJ	.12	.00	615.7	1.72	14.41
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	19	0.00	1500	45	MPH
						LO SPEED	17	0.00	420	30	MPH
						IDLE	12	0.00	380	630	RPM
						2SP IDLE					
						HI IDLE	48	0.00	140	2250	RPM
						LO IDLE	22	0.00	80	850	RPM
						FED 3MOD					
						HI SPEED	22	.01	1750	31.0	DYNO HP
						LO SPEED	18	0.00	720	15.0	DYNO HP
						IDLE - D	13	0.00	390		
						IDLE - N	16	0.00	86		
	COMMENTS: ADJUSTED TIMING ADJUSTED CHOKE										
1	6093	1976	OLDS	CUTL	350	1975 FTP	1.56	16.94	559.3	1.68	15.02
						HWY FET	.17	1.15	422.1	2.32	20.91
	IDLE HC,PPM/HEXANE 310.					FED S CY	.73	4.63	455.0	1.05	19.10
	IDLE CO,PCT (MEAS) 1.40					NY/NJ	1.37	9.18	615.6	1.26	13.99
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	32	.01	1050	45	MPH
						LO SPEED	33	.01	200	30	MPH
						IDLE	270	2.40	105	625	RPM
						2SP IDLE					
						HI IDLE	50	.01	105	2250	RPM
						LO IDLE	310	1.40	360	860	RPM
						FED 3MOD					
						HI SPEED	26	.01	1300	31.0	DYNO HP
						LO SPEED	23	.01	500	15.0	DYNO HP
						IDLE - D	250	2.50	140		
						IDLE - N	350	1.30	34		
	COMMENTS: LIM CAPS OK, TIMING -3DEG SEC VAC BRK TOO RICH										

APPENDIx H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
2	6093	1976	OLDS	CUTL	350	1975 FTP	1.49	9.78	556.0	1.64	15.41
						HWY FET	.16	.66	408.9	2.33	21.63
	IDLE HC,PPM/HEXANE 260.					FED S CY	.18	.35	479.8	1.12	18.46
	IDLE CO,PCT (MEAS) .60					NY/NJ	.29	.52	602.0	1.30	14.70
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	37	.01	1200	45 MPH	
						LO SPEED	48	.01	1850	30 MPH	
						IDLE	240	1.15	890	640 RPM	
						2SP IDLE					
						HI IDLE	90	.01	110	2250 RPM	
						LO IDLE	260	.60	300	875 RPM	
						FED 3MOD					
						HI SPEED	25	.01	1750	31.0 DYNO HP	
						LO SPEED	25	.01	520	15.0 DYNO HP	
						IDLE - D	220	1.55	125		
						IDLE - N	250	.48	265		
	COMMENTS: ADJUSTED CHOKE ADJUSTED TIMING										
1	6094	1976	OLDS	98	455	1975 FTP	.99	10.30	714.1	2.22	12.10
						HWY FET	.15	.81	508.0	2.75	17.41
	IDLE HC,PPM/HEXANE 25.					FED S CY	.23	.11	584.2	2.07	15.17
	IDLE CO,PCT (MEAS) .01					NY/NJ	.37	.39	776.8	2.14	11.40
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	19	.01	1325	50 MPH	
						LO SPEED	20	.01	490	35 MPH	
						IDLE	15	.01	440	740 RPM	
						2SP IDLE					
						HI IDLE	30	.01	460	2250 RPM	
						LO IDLE	15	.01	110	1000 RPM	
						FED 3MOD					
						HI SPEED	15	.01	1450	36.0 DYNO HP	
						LO SPEED	15	.01	730	18.0 DYNO HP	
						IDLE - D	12	.01	410		
						IDLE - N	14	.01	100		
	COMMENTS: LIMITER CAPS BROKEN										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
1	6095	1976	OLDS	DELT	455	1975 FTP	.53	2.00	759.4	1.94	11.61
						HWY FET	.07	.06	577.4	2.62	15.36
	IDLE HC,PPM/HEXANE 10.					FED S CY	.15	.04	596.9	1.17	14.86
	IDLE CO,PCT (MEAS) 0.00					NY/NJ	.23	.01	730.9	.84	12.13
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	13	0.00	850	50	MPH
						LO SPEED	12	0.00	240	35	MPH
						IDLE	8	0.00	74	550	RPM
						2SP IDLE					
						HI IDLE	17	0.00	98	2250	RPM
						LO IDLE	10	0.00	47	630	RPM
						FED 3MOD					
						HI SPEED	10	0.00	900	36.0	DYNO HP
						LO SPEED	8	0.00	360	18.0	DYNO HP
						IDLE - D	7	0.00	70		
						IDLE - N	10	0.00	41		
	COMMENTS: LIMITER CAPS OK										
1	6096	1976	PONT	ASTR	140	1975 FTP	.84	17.84	406.6	2.08	20.30
						HWY FET	.10	1.38	311.0	2.48	28.31
	IDLE HC,PPM/HEXANE 65.					FED S CY	.56	9.62	315.2	1.23	26.73
	IDLE CO,PCT (MEAS) 1.00					NY/NJ	1.06	17.95	460.8	1.87	18.03
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	23	.03	490	38	MPH
						LO SPEED	26	.03	750	25	MPH
						IDLE	81	1.25	9	480	RPM
						2SP IDLE					
						HI IDLE	23	.06	170	2250	RPM
						LO IDLE	78	1.70	8	620	RPM
						FED 3MOD					
						HI SPEED	18	.03	660	26.0	DYNO HP
						LO SPEED	16	.02	500	12.0	DYNO HP
						IDLE - D	58	1.00	6		
						IDLE - N	58	1.10	4		
	COMMENTS: LIMITER CAPS MISSING										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
3	6096	1976	PONT	ASTR	140	1975 FTP	.45	6.17	412.7	1.94	20.94
						HWY FET	.06	.30	308.2	2.38	28.74
	IDLE HC,PPM/HEXANE 8.					FED S CY	.15	1.51	330.8	1.29	26.60
	IDLE CO,PCT (MEAS) .01					NY/NJ	.24	1.55	468.5	1.90	18.81
	IDLE CO,PCT (SPEC) 99.99										
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	12	.01	860	38 MPH	
						LO SPEED	15	.01	1200	25 MPH	
						IDLE	10	.01	195	450 RPM	
						2SP IDLE					
						HI IDLE	20	.01	210	2250 RPM	
						LO IDLE	8	.01	62	550 RPM	
						FED 3MOD					
						HI SPEED	7	.01	1475	26.0 DYNO HP	
						LO SPEED	10	.01	1050	12.0 DYNO HP	
						IDLE - D	7	.01	300		
						IDLE - N	6	.01	185		
	COMMENTS: ADJUSTED IDLE CO AND RPM										
1	6097	1976	PONT	VENT	260	1975 FTP	.34	1.76	508.7	4.06	17.32
						HWY FET	.05	.11	382.4	4.07	23.19
	IDLE HC,PPM/HEXANE 25.					FED S CY	.07	.03	398.4	2.87	22.26
	IDLE CO,PCT (MEAS) .01					NY/NJ	.14	.00	530.3	2.54	16.72
	IDLE CO,PCT (SPEC) 99.99										
							HC, PPM	CO, PCT	NOX, PPM		
						KEY MODE					
						HI SPEED	28	.01	2600	45 MPH	
						LO SPEED	22	0.00	300	30 MPH	
						IDLE	21	0.00	210	510 RPM	
						2SP IDLE					
						HI IDLE	17	0.00	260	2250 RPM	
						LO IDLE	26	0.00	64	700 RPM	
						FED 3MOD					
						HI SPEED	24	0.00	2100	26.0 DYNO HP	
						LO SPEED	20	0.00	1500	12.0 DYNO HP	
						IDLE - D	18	0.00	310		
						IDLE - N	20	0.00	110		
	COMMENTS: LIMITER CAPS OK EGR LINE DSCNTD EGR BKPRTDCR BRKN										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL FCON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
2	6097	1976	PONT	VENT	260	1975 FTP	.42	1.28	516.5	2.73	17.07
						HWY FET	.07	.20	397.4	2.10	22.30
	IDLE HC,PPM/HEXANE 33.					FED S CY	.14	.03	400.3	2.24	22.15
	IDLE CO,PCT (MEAS) 0.00					NY/NJ	.20	.05	533.9	1.90	16.60
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	35	.01	650	45	MPH
						LO SPEED	25	0.00	1150	30	MPH
						IDLE	25	0.00	210	525	RPM
						2SP IDLE					
						HI IDLE	25	0.00	215	2250	RPM
						LO IDLE	33	0.00	52	700	RPM
						FED 3MOD					
						HI SPEED	20	0.00	560	26.0	DYNO HP
						LO SPEED	20	0.00	1050	12.0	DYNO HP
						IDLE - D	17	0.00	225		
						IDLE - N	17	0.00	62		
	COMMENTS: RECONNECTED EGR HOSE										
1	6098	1976	PONT	GRNP	350	1975 FTP	.65	6.13	651.5	3.32	13.38
						HWY FET	.12	.36	454.1	4.09	19.51
	IDLE HC,PPM/HEXANE 30.					FED S CY	.16	.25	512.7	2.33	17.28
	IDLE CO,PCT (MEAS) .01					NY/NJ	.27	.45	688.5	2.37	12.86
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	21	0.00	2300	50	MPH
						LO SPEED	17	0.00	730	35	MPH
						IDLE	12	0.00	170	625	RPM
						2SP IDLE					
						HI IDLE	15	0.00	170	2250	RPM
						LO IDLE	17	0.00	79	800	RPM
						FED 3MOD					
						HI SPEED	18	0.00	2000	31.0	DYNO HP
						LO SPEED	15	0.00	1250	15.0	DYNO HP
						IDLE - D	12	0.00	240		
						IDLE - N	12	0.00	66		
	COMMENTS: LIMITER CAPS OK										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
3	6098	1976	PONT	GRNP	350	1975 FTP	.58	5.46	624.9	3.14	13.97
						HWY FET	.11	.35	466.2	4.16	19.00
	IDLE HC,PPM/HEXANE 20.					FED S CY	.15	.22	485.1	2.31	18.26
	IDLE CO,PCT (MEAS) .01					NY/NJ	.29	.96	643.5	2.08	13.74
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	28	.01	1750	50 MPH	
						LO SPEED	25	.01	760	35 MPH	
						IDLE	17	.01	120	600 RPM	
						2SP IDLE					
						HI IDLE	15	.01	280	2250 RPM	
						LO IDLE	20	.01	65	680 RPM	
						FED 3MOD					
						HI SPEED	20	.01	1775	31.0 DYNO HP	
						LO SPEED	20	.01	1050	15.0 DYNO HP	
						IDLE - D	15	.01	105		
						IDLE - N	20	.01	44		
	COMMENTS: ADJUSTED IDLE CO										
1	6099	1976	PONT	LEMA	350	1975 FTP	.92	16.97	629.8	2.48	13.46
						HWY FET	.16	4.57	466.8	4.07	18.71
	IDLE HC,PPM/HEXANE 10.					FED S CY	.69	14.51	492.8	1.18	17.14
	IDLE CO,PCT (MEAS) .01					NY/NJ	.53	6.41	625.5	1.59	13.93
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	20	0.00	1600	45 MPH	
						LO SPEED	18	.06	320	30 MPH	
						IDLE	8	0.00	175	620 RPM	
						2SP IDLE					
						HI IDLE	12	0.00	64	2250 RPM	
						LO IDLE	8	0.00	88	800 RPM	
						FED 3MOD					
						HI SPEED	14	0.00	1750	31.0 DYNO HP	
						LO SPEED	11	.01	840	15.0 DYNO HP	
						IDLE - D	8	0.00	220		
						IDLE - N	8	0.00	84		
	COMMENTS: LIM CAPS OK, PRIM VAC BREAK MALADJUSTED, INIT TIMING -4 DEG										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
2	6099	1976	PONT	LEMA	350	1975 FTP	.69	9.90	613.7	3.26	14.06
						HWY FET	.11	1.60	443.3	4.48	19.89
	IDLE HC,PPM/HEXANE 8.					FED S CY	.31	7.89	487.3	1.74	17.73
	IDLE CO,PCT (MEAS) 0.00					NY/NJ	.41	4.40	646.8	2.13	13.55
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	23	0.00	2200	46 MPH	
						LO SPEED	17	0.00	1100	30 MPH	
						IDLE	12	0.00	220	630 RPM	
						2SP IDLE					
						HI IDLE	12	.04	115	2250 RPM	
						LO IDLE	14	0.00	92	800 RPM	
						FED 3MOD					
						HI SPEED	17	0.00	2500	31.0 DYNO HP	
						LO SPEED	14	.01	1250	15.0 DYNO HP	
						IDLE - D	9	0.00	280		
						IDLE - N	10	0.00	90		
	COMMENTS: INITIAL TIMING SET TO SPEC VAC BREAK ADJSTED										
3	6099	1976	PONT	LEMA	350	1975 FTP	.56	6.85	594.6	3.20	14.62
						HWY FET	.08	.60	454.4	4.56	19.48
	IDLE HC,PPM/HEXANE 14.					FED S CY	.36	8.91	478.1	1.60	17.99
	IDLE CO,PCT (MEAS) .02					NY/NJ	.48	6.30	605.3	1.71	14.39
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	23	.01	2000	45 MPH	
						LO SPEED	19	.01	1200	30 MPH	
						IDLE	25	.01	64	540 RPM	
						2SP IDLE					
						HI IDLE	14	.02	154	2250 RPM	
						LO IDLE	20	.01	56	650 RPM	
						FED 3MOD					
						HI SPEED	18	.01	2400	31.0 DYNO HP	
						LO SPEED	16	.01	1250	15.0 DYNO HP	
						IDLE - D	10	.01	120		
						IDLE - N	12	.01	51		
	COMMENTS: ADJUST IDLE CO										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOXC	FUEL ECON (MPG)
4	6099	1976	PONT	LEMA	350	1975 FTP	.42	8.50	694.6	2.04	12.51
						HWY FET	.07	2.10	538.1	2.52	16.39
	IDLE HC,PPM/HEXANE 60.					FED S CY	.13	4.10	550.5	.94	15.92
	IDLE CO,PCT (MEAS) 0.00					NY/NJ	.22	3.61	704.1	1.30	12.49
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	12	0.00	680	45 MPH	
						LO SPEED	13	.60	100	30 MPH	
						IDLE	8	0.00	60	550 RPM	
						2SP IDLE					
						HI IDLE	7	0.00	110	2250 RPM	
						LO IDLE	8	0.00	34	620 RPM	
						FED 3MOD					
						HI SPEED	8	0.00	1100	31.0 DYNO HP	
						LO SPEED	7	0.00	540	15.0 DYNO HP	
						IDLE - D	7	0.00	68		
						IDLE - N	8	0.00	38		
	COMMENTS: MAJOR TUNE UP										
1	6100	1976	PONT	GRNS	400	1975 FTP	2.60	35.72	713.9	2.88	11.40
						HWY FET	.25	2.10	525.3	3.93	16.77
	IDLE HC,PPM/HEXANE 350.					FED S CY	1.87	31.80	570.7	1.97	14.17
	IDLE CO,PCT (MEAS) 3.40					NY/NJ	3.29	50.93	716.6	1.29	11.00
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	42	.01	2100	50 MPH	
						LO SPEED	35	.01	510	35 MPH	
						IDLE	260	3.00	80	700 RPM	
						2SP IDLE					
						HI IDLE	30	.01	155	2250 RPM	
						LO IDLE	350	3.40	56	1000 RPM	
						FED 3MOD					
						HI SPEED	35	.01	2200	36.0 DYNO HP	
						LO SPEED	25	.01	900	18.0 DYNO HP	
						IDLE - D	195	2.60	86		
						IDLE - N	400	2.60	50		
	COMMENTS: LIM CAPS MSNG,CHOKE MALADJSTD,PRI VAC BRK LKNG,SEC VAC BRK TVS BYP										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	EMISSION RESULTS (GMS/MI) HC	CO	CO2	NOXC	FUEL ECON (MPG)
2	6100	1976	PONT	GRNS	400	1975 FTP	2.43	31.43	700.3	3.00	11.72
						HWY FET	.24	1.79	539.7	4.32	16.34
	IDLE HC,PPM/HEXANE 25.					FED S CY	1.67	23.62	545.4	2.01	15.10
	IDLE CO,PCT (MEAS) .01					NY/NJ	2.85	34.82	709.4	1.36	11.48
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	29	.01	2100	50	MPH
						LO SPEED	22	.01	500	35	MPH
						IDLE	165	2.80	680	700	RPM
						2SP IDLE					
						HI IDLE	25	.01	135	2250	RPM
						LO IDLE	420	3.00	40	1000	RPM
						FED 3MOD					
						HI SPEED	29	.01	2150	36.0	DYNO HP
						LO SPEED	25	.01	830	18.0	DYNO HP
						IDLE - D	47	2.20	100		
						IDLE - N	400	2.00	40		
	COMMENTS: ADJUSTED CHOKE RECONNTED TVS										
3	6100	1976	PONT	GRNS	400	1975 FTP	.69	7.91	810.5	1.55	10.76
						HWY FET	.03	.36	589.8	1.75	15.03
	IDLE HC,PPM/HEXANE 10.					FED S CY	.14	1.76	654.0	1.02	13.51
	IDLE CO,PCT (MEAS) 0.00					NY/NJ	.27	.07	776.7	.83	11.41
	IDLE CO,PCT (SPEC) 99.99										
							HC,	CO,	NOX,		
						KEY MODE	PPM	PCT	PPM		
						HI SPEED	10	0.00	720	50	MPH
						LO SPEED	8	0.00	190	35	MPH
						IDLE	10	0.00	78	600	RPM
						2SP IDLE					
						HI IDLE	8	0.00	100	2250	RPM
						LO IDLE	12	0.00	41	720	RPM
						FED 3MOD					
						HI SPEED	10	0.00	780	36.0	DYNO HP
						LO SPEED	8	0.00	300	18.0	DYNO HP
						IDLE - D	8	0.00	73		
						IDLE - N	10	0.00	36		
	COMMENTS: ADJUST IDLE CO										

APPENDIX H

LISTING OF ALL EMISSION TEST RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

TEST NO.	VEH NO.	YEAR	MAKE	MODEL	CID	TEST TYPE	HC	CO	CO2	NOxC	FUEL ECON (MPG)
							---- EMISSION RESULTS (GMS/MI) ----				
1	6196	1976	PONT	ASTR	140	1975 FTP	.71	14.70	409.7	.84	20.40
						HWY FET	.12	2.64	301.3	1.23	29.02
	IDLE HC,PPM/HEXANE 15.					FED S CY	.25	4.11	332.2	.44	26.15
	IDLE CO,PCT (MEAS) 0.00					NY/NJ	.28	2.12	478.8	.82	18.38
	IDLE CO,PCT (SPEC) 99.99										

KEY MODE	HC, PPM	CO, PCT	NOX, PPM		
HI SPEED	20	0.00	610	38	MPH
LO SPEED	17	0.00	170	25	MPH
IDLE	13	0.00	125	690	RPM
2SP IDLE					
HI IDLE	35	0.00	82	2250	RPM
LO IDLE	12	0.00	76	800	RPM
FED 3MOD					
HI SPEED	12	0.00	1100	21.0	DYNO HP
LO SPEED	13	0.00	400	9.0	DYNO HP
IDLE - D	7	0.00	160		
IDLE - N	11	0.00	92		

COMMENTS: REJ FROM PROGRAM AFTR DISC OF INCOR CARB INSTALLED BY DLR

Appendix I

DRIVEABILITY EVALUATION RESULTS FOR INDIVIDUAL VEHICLES

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APPENDIX I

DRIVEABILITY EVALUATION RESULTS
FOR INDIVIDUAL VEHICLES

DETROIT

MANUFACTURER: CHRY

VEH NO.	TEST NO.	CONSTANT SPEED PHASE (OVER THE ROAD)							ACCELERATION FROM STOP PHASE (OVER THE ROAD)				RESTART PHASE		COLD START AND IDLE PHASE (DYNAMOMETER)							DRIVE AWAY PHASE (DYNAMOMETER)							
		1	1A	2	3	4	5	5A	6	7	8	9	10	11	12	13	13A	14	14A	15	16	17	17A	18	19	20	20A	21	22
6001	1	2	0	3	3	3	3	3	3	3	3	3	03	3	02	2	0	2	0	1	3	2	0	3	3	2	0	3	3
6001	3	2	0	9	4	9	3	4	9	9	9	9	02	4	01	2	0	2	0	2	5	2	0	5	5	2	0	5	5
6002	1	2	0	3	3	3	9	3	3	3	3	3	01	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6002	2	2	0	3	3	3	9	3	3	3	3	3	01	3	02	2	0	2	0	1	2	2	0	2	2	2	0	2	2
6002	3	2	0	3	3	3	9	3	3	3	3	3	02	4	02	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6002	6	2	0	4	4	3	9	4	4	9	9	9	01	4	01	2	0	2	0	2	2	2	0	2	2	2	0	2	2
6002	7	2	0	3	3	3	9	3	3	3	3	3	01	3	02	2	0	2	0	2	2	2	0	2	2	2	0	2	2
6002	8	2	0	3	3	3	9	3	3	3	3	3	01	3	01	2	0	2	0	2	5	2	0	5	5	2	0	5	5
6002	9	2	0	3	4	3	0	4	3	3	3	3	02	4	01	2	0	2	0	1	3	2	0	3	3	2	0	3	3
6003	1	2	0	3	3	3	9	3	3	3	3	3	02	3	01	2	0	2	0	2	3	2	0	3	3	2	0	4	4
6004	1	2	0	3	3	3	9	3	3	3	3	3	01	3	01	2	0	2	0	2	3	2	0	3	2	2	0	3	2
6004	2	2	0	3	3	3	9	3	3	3	3	3	02	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6005	1	2	0	3	3	3	9	3	3	3	3	3	01	2	01	2	0	1	1	1	1	2	0	1	1	1	1	1	2
6005	2	1	1	2	4	3	9	3	3	3	2	2	05	3	01	2	0	2	0	1	1	2	0	1	1	2	0	1	2
6005	3	2	0	2	3	3	9	3	2	2	3	3	01	2	01	2	0	1	1	1	1	1	1	2	1	2	0	1	1
6006	1	2	0	4	4	4	3	3	3	4	4	4	05	4	01	2	0	2	0	2	3	2	0	3	3	2	0	4	3
6006	2	2	0	4	4	4	4	4	4	4	4	4	01	4	01	2	0	2	0	2	3	2	0	3	3	2	0	3	3
6006	3	2	0	3	3	3	3	3	4	4	4	4	02	5	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6006	4	2	0	3	3	3	3	3	4	4	4	4	01	4	02	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6006	A	2	0	3	4	4	4	4	4	4	4	4	02	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6007	1	2	0	4	3	3	9	3	4	4	4	5	02	5	02	2	0	2	0	2	5	2	0	5	5	2	0	5	5
6007	2	1	4	3	4	3	9	4	3	3	3	3	02	3	01	2	0	2	0	2	3	2	0	3	3	2	0	4	4
6007	3	2	0	4	4	4	9	4	4	4	4	4	02	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6008	1	2	0	4	4	4	4	4	2	3	3	3	02	4	01	2	0	2	0	2	4	2	0	3	4	2	0	4	4
6009	1	2	0	3	4	4	9	4	3	4	4	4	02	4	02	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6009	2	2	0	4	4	4	9	4	4	3	3	3	02	4	02	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6010	1	2	0	3	3	3	3	3	4	4	4	4	01	4	01	2	0	2	0	2	3	2	0	3	3	2	0	3	3
6010	2	2	0	4	4	4	3	4	4	4	4	4	01	4	01	2	0	2	0	1	4	2	0	3	4	2	0	3	4
6010	3	2	0	4	4	4	3	4	4	4	4	4	01	4	02	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6011	1	2	0	4	4	4	4	4	4	9	9	9	02	4	01	2	0	2	0	1	3	2	0	3	3	2	0	3	3
6011	3	2	0	4	4	4	4	4	4	9	9	9	02	4	01	2	0	2	0	1	4	2	0	3	4	2	0	3	4
6011	4	1	1	4	4	4	4	4	3	3	4	4	02	4	02	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6012	1	2	0	3	3	3	9	3	3	3	3	3	01	3	01	2	0	2	0	1	1	2	0	1	1	2	0	1	1
6012	2	2	0	3	3	3	9	9	3	3	3	3	01	3	01	2	0	2	0	2	3	2	0	3	3	2	0	3	3
6012	3	2	0	3	3	3	9	9	3	3	3	3	01	3	01	2	0	2	0	1	2	2	0	2	2	2	0	2	2
6012	4	2	0	4	4	4	9	4	4	4	4	4	01	4	01	2	0	2	0	2	3	2	0	3	3	2	0	3	3
6013	1	2	0	3	3	3	4	4	2	3	3	3	01	3	01	2	0	2	0	1	2	2	0	2	2	2	0	2	2
6013	2	2	0	3	3	3	3	3	3	3	3	3	01	3	01	2	0	2	0	1	2	2	0	2	2	2	0	2	2
6013	3	2	0	4	4	4	3	3	3	3	4	4	01	3	02	2	0	2	0	1	3	2	0	3	3	2	0	2	3
6014	1	2	0	3	3	3	9	3	4	4	4	4	01	3	01	2	0	2	0	2	2	2	0	1	1	2	0	1	1

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APPENDIX I

DRIVEABILITY EVALUATION RESULTS
FOR INDIVIDUAL VEHICLES

DETROIT

MANUFACTURER: CHRY

VEH NO.	TEST NO.	CONSTANT SPEED PHASE (OVER THE ROAD)							ACCELERATION FROM STOP PHASE (OVER THE ROAD)				RESTART PHASE		COLD START AND IDLE PHASE (DYNAMOMETER)							DRIVE AWAY PHASE (DYNAMOMETER)							
		1	1A	2	3	4	5	5A	6	7	8	9	10	11	12	13	13A	14	14A	15	16	17	17A	18	19	20	20A	21	22
6015	1	2	0	4	4	4	3	4	4	4	4	4	03	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6015	3	2	0	4	4	4	4	4	4	4	4	4	01	4	01	2	0	1	2	2	3	2	0	3	4	2	0	4	4
6015	4	2	0	4	4	4	4	4	4	4	4	4	01	4	02	2	0	1	1	1	2	2	0	2	2	2	0	2	3
6016	1	2	0	3	4	3	9	3	2	3	3	3	01	3	01	2	0	2	0	1	3	2	0	3	2	2	0	1	2
6017	1	2	0	3	3	3	3	3	3	3	3	3	02	2	01	1	1	2	0	1	1	2	0	1	1	2	0	1	2
6017	2	1	6	2	3	2	3	3	2	2	2	2	03	3	01	2	0	2	0	2	2	2	0	1	2	2	0	1	2
6018	1	2	0	5	5	5	5	5	5	5	5	5	02	5	01	2	0	2	0	2	5	2	0	5	5	2	0	5	5
6018	3	2	0	3	3	3	9	3	3	4	4	4	01	4	01	2	0	2	0	2	3	2	0	3	3	2	0	3	3
6019	1	2	0	2	3	3	3	3	2	3	3	3	01	4	01	2	0	2	0	2	4	2	0	4	5	2	0	5	5
6019	2	2	0	2	5	3	3	3	3	3	3	3	01	4	01	2	0	2	0	2	4	2	0	4	3	2	0	4	4
6020	1	2	0	3	4	4	4	4	3	4	4	4	02	4	02	2	0	2	0	1	2	2	0	1	2	2	0	1	2
6021	1	2	0	4	4	4	9	5	4	4	4	4	02	3	02	2	0	2	0	1	3	1	2	2	3	1	9	2	3
6021	3	2	0	4	4	4	4	4	4	4	4	4	02	5	02	2	0	2	0	1	4	2	0	4	5	2	0	5	5
6021	4	2	4	4	4	4	4	4	5	4	4	5	02	0	02	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6021	6	2	0	3	3	3	9	4	3	3	3	3	01	3	01	2	0	2	0	1	3	1	5	2	3	1	5	2	3
6021	7	2	0	3	4	3	9	4	4	4	4	4	02	4	02	2	0	2	0	2	4	2	0	4	4	1	6	2	4
6021	8	2	0	4	4	4	9	4	4	4	4	4	02	5	01	2	0	2	0	2	5	2	0	5	5	2	0	5	5
6021	9	1	3	4	4	4	9	3	4	4	4	4	02	5	02	2	0	2	0	2	5	2	0	5	5	2	0	5	5
6022	1	2	0	4	4	3	9	4	4	4	4	4	02	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6022	3	2	0	3	3	3	9	3	3	3	3	3	01	3	01	2	0	2	0	1	2	2	0	2	2	2	0	2	2
6022	4	2	0	3	3	3	9	3	3	3	3	3	01	3	01	2	0	2	0	2	3	2	0	3	3	2	0	3	3
6023	1	2	0	3	3	3	3	3	3	3	3	3	02	3	01	2	0	2	0	1	3	1	3	2	3	1	3	2	3
6023	2	2	0	3	4	3	4	4	3	4	4	4	02	4	01	2	0	2	0	1	4	1	1	2	4	1	4	2	4
6023	3	2	0	3	4	3	3	4	4	3	3	3	01	4	01	2	0	2	0	1	3	2	2	2	2	2	0	2	3
6024	1	2	0	4	4	4	9	4	4	4	4	4	02	5	02	2	0	2	0	2	5	2	0	5	5	2	0	5	5
6024	2	2	0	4	4	4	2	9	4	4	4	4	02	4	02	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6024	5	2	0	3	3	3	9	9	3	3	3	3	02	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6024	6	2	0	4	4	4	9	9	4	4	4	4	01	3	01	2	0	2	0	1	2	2	0	2	2	1	2	2	2
6024	7	2	0	9	9	9	9	4	4	4	4	4	01	4	02	2	0	2	0	1	3	2	0	3	3	2	0	3	3
6024	8	1	1	4	3	3	9	9	3	4	4	4	01	4	01	2	0	2	0	1	2	2	0	2	2	2	0	2	2
6024	9	2	0	3	4	3	9	9	4	3	3	3	01	3	01	2	0	2	0	2	2	2	0	2	2	2	0	2	2
6025	1	2	0	4	4	4	4	4	4	4	4	4	01	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6025	3	2	0	3	3	3	3	3	3	3	3	3	01	3	02	2	0	2	0	2	2	2	0	2	2	2	0	2	2
6025	5	2	3	3	3	3	3	3	3	3	3	3	01	3	01	2	0	2	0	2	3	2	0	3	3	2	0	3	3
6025	6	2	0	4	4	4	4	4	4	4	4	4	01	4	01	2	0	2	0	1	3	2	0	3	3	2	0	3	3
6025	7	2	0	3	3	3	3	3	3	3	3	3	01	2	02	2	0	2	0	1	2	2	0	2	2	2	0	2	2
6025	8	2	0	4	4	4	4	4	3	4	4	4	01	4	01	2	0	2	0	2	3	2	0	3	3	2	0	3	3
6025	9	2	0	3	3	3	3	3	3	3	3	3	02	3	00	2	0	2	0	2	3	2	0	3	3	2	0	3	3

APPENDIX I

DRIVEABILITY EVALUATION RESULTS
FOR INDIVIDUAL VEHICLES

DETROIT

MANUFACTURER: CHRY

VEH NO.	TEST NO.	CONSTANT SPEED PHASE (OVER THE ROAD) 1	1A	2	3	4	5	5A	ACCELERATION FROM STOP PHASE (OVER THE ROAD) 6	7	8	9	RESTART PHASE 10	11	COLD START AND IDLE PHASE (DYNAMOMETER) 12	13	13A	14	14A	15	16	DRIVE AWAY PHASE (DYNAMOMETER) 17	17A	18	19	20	20A	21	22
6026	1	2	0	3	3	4	3	3	3	3	3	3	01	3	01	2	0	2	0	1	4	2	0	2	4	2	0	4	4
6026	2	2	0	3	3	3	3	3	3	3	3	3	01	4	01	2	0	2	0	1	5	2	0	4	5	2	0	4	5
6026	3	2	0	3	3	3	3	3	3	3	3	3	10	3	01	1	1	2	0	1	3	2	0	2	3	2	0	3	3
6027	1	2	0	4	4	4	9	4	4	4	4	4	03	4	01	2	0	2	0	1	4	2	0	4	4	2	0	4	4
6027	3	2	0	3	4	3	9	3	3	3	3	3	02	4	02	2	0	1	1	2	4	2	0	4	4	2	0	4	4
6027	4	1	2	3	3	3	9	3	2	2	3	3	02	3	01	2	0	2	0	2	2	2	0	2	2	2	0	2	2
6028	1	2	0	4	4	4	4	4	4	4	4	4	01	4	01	2	0	2	0	1	3	1	2	3	3	1	2	3	3
6028	2	2	0	3	3	3	3	3	3	3	3	3	01	3	01	2	0	2	0	2	3	1	2	2	2	2	0	2	2
6028	3	2	0	3	3	3	3	3	3	3	3	3	01	3	02	2	0	2	0	2	4	2	0	3	4	2	0	4	4
6029	1	1	1	3	3	3	9	9	2	3	3	3	02	3	01	2	0	2	0	1	2	1	1	1	2	2	0	2	2
6030	1	1	2	3	3	3	3	3	3	3	3	3	01	3	01	2	0	2	0	2	3	2	0	3	3	2	0	2	3
6030	3	2	0	3	3	3	9	3	3	3	3	3	01	3	01	2	0	2	0	1	2	2	0	2	3	2	0	3	3
6030	4	2	0	3	3	3	3	4	3	3	3	3	01	3	01	2	0	2	0	2	4	2	0	3	4	2	0	3	4
6030	A	2	0	4	4	4	3	3	3	4	4	4	01	4	01	2	0	2	0	1	2	1	5	2	2	1	5	3	3
6030	B	1	3	2	4	2	3	3	2	3	4	4	03	4	01	2	0	2	0	1	3	2	0	2	3	2	0	2	3
6031	1	2	0	3	4	3	3	3	3	3	3	3	01	5	01	2	0	2	0	2	5	2	0	5	5	2	0	5	5
6031	2	2	0	4	4	4	3	4	4	3	4	4	01	4	02	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6032	1	2	0	4	4	4	3	4	4	4	4	4	01	4	01	2	0	2	0	1	1	1	1	1	1	2	0	2	3
5033	1	2	0	5	5	5	3	4	5	5	5	5	01	4	01	2	0	2	0	1	4	2	0	2	4	2	0	3	4
5033	3	2	0	3	3	3	3	3	3	3	3	3	01	3	01	2	0	2	0	1	3	1	2	2	2	1	2	2	3
5033	4	2	0	4	4	4	4	4	4	4	4	4	01	4	01	2	0	2	0	1	2	2	0	2	2	2	0	2	2

APPENDIX I

DRIVEABILITY EVALUATION RESULTS
FOR INDIVIDUAL VEHICLES

DETROIT

MANUFACTURER: FORD

VEH NO.	TEST NO.	CONSTANT SPEED PHASE (OVER THE ROAD)							ACCELERATION FROM STOP PHASE (OVER THE ROAD)				RESTART PHASE		COLD START AND IDLE PHASE (DYNAMOMETER)							DRIVE AWAY PHASE (DYNAMOMETER)							
		1	1A	2	3	4	5	5A	6	7	8	9	10	11	12	13	13A	14	14A	15	16	17	17A	18	19	20	20A	21	22
6034	1	2	0	3	3	3	9	3	3	3	3	3	01	4	02	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6034	2	2	4	4	4	4	9	4	4	4	4	4	01	4	01	2	0	2	0	1	3	2	0	3	3	2	0	3	3
6035	1	2	0	4	4	4	9	4	4	4	4	4	02	5	02	2	0	2	0	2	5	2	0	5	5	2	0	5	5
6035	5	2	0	4	4	4	9	4	4	4	3	3	01	4	01	2	0	2	0	2	3	2	0	3	3	2	0	3	3
6035	6	2	0	3	3	3	9	9	3	3	3	3	01	4	02	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6035	7	2	0	3	3	3	9	9	3	3	3	3	01	3	01	2	0	2	0	2	3	2	0	3	3	2	0	3	3
6035	8	2	0	3	3	3	9	9	3	3	3	3	02	4	02	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6035	9	2	0	3	3	3	9	9	3	3	3	3	01	3	02	2	0	2	0	2	3	2	0	3	3	2	0	3	3
6036	1	1	2	3	3	3	9	3	3	3	3	3	01	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6037	1	1	2	2	3	2	9	2	2	2	2	2	01	3	01	2	0	2	0	1	3	2	0	3	3	2	0	3	3
6037	2	2	3	3	4	4	9	3	2	2	2	2	01	3	01	2	0	2	0	1	3	2	0	3	3	2	0	3	3
6038	1	2	0	4	4	4	9	4	4	4	4	4	02	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6039	1	2	0	3	3	3	9	9	3	3	3	3	02	4	01	2	0	2	0	1	3	2	0	3	4	2	0	4	4
6040	1	2	0	3	3	3	3	3	3	3	3	3	02	3	01	2	0	2	0	2	3	2	0	3	3	2	0	3	3
6040	5	1	3	3	3	3	4	4	3	3	3	3	01	3	01	2	0	2	0	2	3	2	0	3	3	2	0	3	3
6040	6	2	0	3	3	3	3	3	3	3	3	3	01	3	01	2	0	2	0	1	3	2	0	3	3	2	0	3	3
6040	7	2	0	3	3	3	3	3	3	3	3	3	01	4	01	2	0	2	0	1	4	2	0	4	4	2	0	4	4
6040	8	2	0	3	3	3	3	3	3	3	3	3	02	3	01	2	0	2	0	2	3	2	0	3	3	2	0	3	3
6040	9	2	0	3	3	3	3	3	3	3	3	3	01	3	01	2	0	2	0	1	3	2	0	3	3	2	0	3	3
6041	1	2	0	3	3	3	9	9	3	3	3	3	01	4	01	2	0	2	0	1	3	2	0	3	3	2	0	3	3
6042	1	2	0	3	3	3	9	9	3	3	3	3	02	4	01	2	0	2	0	2	4	2	0	3	4	2	0	4	4
6043	1	2	0	3	3	3	3	3	3	3	3	3	01	3	01	2	0	2	0	1	3	2	0	3	3	2	0	3	3
6044	1	2	0	3	3	3	9	3	3	3	3	3	01	5	01	2	0	2	0	2	5	2	0	5	5	2	0	5	5
6044	3	2	0	3	3	3	2	2	3	3	3	3	01	4	01	2	0	2	0	2	4	2	0	3	4	2	0	4	4
6045	1	2	0	3	3	3	3	3	3	3	3	3	02	5	01	2	0	2	0	2	5	2	0	5	5	2	0	5	5
6046	1	2	0	3	3	3	3	3	3	3	3	3	02	3	01	2	0	2	0	2	3	2	0	3	3	2	0	3	3
6046	2	2	0	3	3	3	3	3	3	3	3	3	01	3	01	2	0	2	0	2	3	1	3	3	3	2	0	3	3
6046	3	2	0	3	4	3	3	3	3	4	3	4	01	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6046	4	2	0	3	3	3	3	3	3	3	3	3	01	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6046	5	2	0	3	3	3	3	3	3	3	3	3	01	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6046	6	2	0	3	3	3	3	3	3	3	3	3	01	3	01	2	0	2	0	1	3	2	0	3	3	2	0	3	3
6046	7	2	0	3	3	3	3	3	3	3	3	3	01	3	01	2	0	2	0	2	3	2	0	3	3	2	0	3	3
6046	8	2	0	4	4	4	4	4	4	4	4	4	02	4	01	2	0	2	0	1	3	2	0	3	3	2	0	3	3
6046	9	2	4	4	4	4	4	4	4	4	4	4	02	4	01	2	0	2	0	1	4	2	0	4	4	2	0	4	4
6047	1	2	0	4	4	4	4	4	3	4	4	4	01	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6047	2	2	0	3	3	3	3	3	3	3	3	3	01	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6047	3	2	0	3	3	3	3	3	3	3	3	3	01	3	01	2	0	2	0	2	3	2	0	3	3	2	0	3	3
6047	4	2	0	3	3	3	3	3	3	3	3	3	02	3	01	2	0	2	0	2	3	1	3	3	3	2	0	3	3

APPENDIX I

DRIVEABILITY EVALUATION RESULTS
FOR INDIVIDUAL VEHICLES

DETROIT

MANUFACTURER: FORD

VEH NO.	TEST NO.	CONSTANT SPEED PHASE (OVER THE ROAD)							ACCELERATION FROM STOP PHASE (OVER THE ROAD)				RESTART PHASE		COLD START AND IDLE PHASE (DYNAMOMETER)							DRIVE AWAY PHASE (DYNAMOMETER)							
		1	1A	2	3	4	5	5A	6	7	8	9	10	11	12	13	13A	14	14A	15	16	17	17A	18	19	20	20A	21	22
6048	1	2	0	4	4	4	4	4	4	4	4	4	01	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6048	3	2	0	3	3	3	3	3	3	3	3	3	02	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6048	4	2	0	4	4	4	4	4	3	4	4	4	01	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6049	1	2	0	3	3	3	3	3	3	3	3	3	01	3	01	2	0	2	0	2	3	2	0	3	3	2	0	3	3
6049	2	2	0	3	3	3	3	3	3	3	3	3	01	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6049	3	2	0	3	3	3	3	3	3	3	3	3	01	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6049	4	2	0	3	3	3	3	3	3	3	3	3	01	3	01	2	0	2	0	2	3	2	0	3	3	2	0	3	3
6050	1	2	0	4	4	3	9	4	3	4	4	4	01	5	01	2	0	2	0	2	5	2	0	5	5	2	0	5	5
6051	1	2	0	4	4	3	4	4	3	4	4	4	01	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6052	1	2	0	3	3	3	9	9	3	3	3	3	01	3	01	2	0	1	1	2	3	2	0	3	3	2	0	3	3
6053	1	2	0	3	3	3	3	3	3	3	3	3	01	3	01	2	0	2	0	2	3	2	0	3	3	2	0	3	3
6054	1	2	0	4	4	4	4	4	3	4	3	4	01	4	02	2	0	2	0	2	4	2	0	3	4	2	0	3	4
6055	1	2	0	4	4	4	4	4	4	4	4	4	01	2	01	2	0	2	0	1	3	2	0	3	3	2	0	3	3
6055	2	2	0	4	4	4	4	4	4	4	4	4	01	2	01	2	0	2	0	1	3	2	0	3	3	2	0	3	3
6055	3	2	0	3	3	3	3	3	3	3	3	3	01	3	01	2	0	2	0	2	3	2	0	3	3	2	0	3	3
6056	1	2	0	3	3	3	3	3	3	3	3	3	02	4	02	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6056	2	2	0	4	4	4	4	4	4	4	4	4	01	5	02	2	0	2	0	2	5	2	0	5	5	2	0	5	5
6057	1	2	0	4	5	4	4	4	3	4	4	4	01	4	02	2	0	2	0	1	4	2	0	3	4	2	0	4	4
6058	1	2	0	3	4	3	4	4	3	4	4	4	01	3	01	2	0	2	0	1	3	2	0	2	3	2	0	3	4
6059	1	2	0	3	3	3	3	3	3	3	3	3	04	3	01	2	0	2	0	2	3	2	0	3	3	2	0	3	3
6059	3	2	0	3	3	3	3	3	3	3	3	3	01	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6059	4	2	0	3	3	3	3	3	3	3	3	3	01	5	01	2	0	2	0	2	5	2	0	5	5	2	0	5	5
6060	1	2	0	4	4	4	4	4	4	4	4	4	01	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6060	2	2	4	4	4	4	4	4	4	4	4	4	01	4	07	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6061	1	2	0	4	4	4	4	4	4	4	4	4	01	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6061	3	2	0	3	3	3	3	3	3	3	3	3	01	3	01	2	0	2	0	2	3	2	0	3	3	2	0	3	3
6061	4	2	0	3	3	3	3	3	3	3	3	3	01	3	01	2	0	2	0	2	3	2	0	3	3	2	0	3	3
6062	1	2	0	3	3	3	3	3	3	3	3	3	01	3	01	2	0	2	0	2	3	2	0	3	3	2	0	3	3
6062	3	2	0	4	4	4	4	4	4	4	4	4	01	3	01	2	0	2	0	2	3	2	0	3	3	2	0	3	3
6062	4	2	0	5	5	5	4	4	5	5	5	5	01	3	01	2	0	2	0	2	3	2	0	4	4	2	0	4	4
6062	A	2	0	4	4	4	4	4	4	4	4	4	01	4	02	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6063	1	2	0	4	4	4	4	4	4	4	4	4	01	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6064	1	2	0	4	4	4	3	3	3	4	4	4	02	4	02	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6064	2	2	0	3	4	4	3	3	3	4	4	4	01	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6064	5	2	0	4	4	4	4	4	5	5	5	5	02	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6064	6	2	0	4	4	4	4	4	4	4	4	4	01	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6064	7	2	0	4	4	4	4	4	4	4	4	4	01	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6064	8	2	0	4	4	4	4	4	4	4	4	4	01	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6064	9	2	0	4	4	4	4	4	4	4	4	4	02	4	02	2	0	2	0	2	4	2	0	4	4	2	0	4	4

APPENDIX I

DRIVEABILITY EVALUATION RESULTS
FOR INDIVIDUAL VEHICLES

DETROIT

MANUFACTURER: FORD

VEH NO.	TEST NO.	CONSTANT SPEED PHASE (OVER THE ROAD)							ACCELERATION FROM STOP PHASE (OVER THE ROAD)				RESTART PHASE		COLD START AND IDLE PHASE (DYNAMOMETER)							DRIVE AWAY PHASE (DYNAMOMETER)							
		1	1A	2	3	4	5	5A	6	7	8	9	10	11	12	13	13A	14	14A	15	16	17	17A	18	19	20	20A	21	22
6065	1	2	0	4	5	4	4	4	4	4	5	4	02	4	02	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6066	1	2	0	4	5	5	4	4	4	4	4	4	02	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6066	5	2	0	4	4	4	4	4	4	4	4	4	01	5	02	2	0	2	0	2	5	2	0	5	5	2	0	5	5
6066	6	2	0	4	4	4	3	3	4	4	4	4	01	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6066	7	2	0	4	4	4	4	4	4	4	4	4	02	4	02	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6066	8	2	0	4	4	4	4	4	4	4	4	4	02	4	02	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6066	9	2	0	4	4	4	4	4	4	4	4	4	03	4	02	2	0	2	0	2	4	2	0	4	4	2	0	4	4

APPENDIX I

DRIVEABILITY EVALUATION RESULTS
FOR INDIVIDUAL VEHICLES

DETROIT

MANUFACTURER: GM

VEH NO.	TEST NO.	CONSTANT SPEED PHASE (OVER THE ROAD)							ACCELERATION FROM STOP PHASE (OVER THE ROAD)				RESTART PHASE		COLD START AND IDLE PHASE (DYNAMOMETER)							DRIVE AWAY PHASE (DYNAMOMETER)							
		1	1A	2	3	4	5	5A	6	7	8	9	10	11	12	13	13A	14	14A	15	16	17	17A	18	19	20	20A	21	22
6067	1	2	0	3	4	4	3	3	4	4	4	4	02	3	01	2	0	2	0	2	3	2	0	3	4	2	0	4	4
6067	3	2	0	3	4	3	3	3	3	4	4	4	02	3	02	2	0	2	0	2	3	2	0	3	3	2	0	3	3
6068	1	2	0	4	4	3	9	4	3	4	4	4	04	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6068	5	2	0	3	4	3	9	4	3	4	4	4	01	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6069	1	2	0	4	4	4	4	4	3	4	4	4	01	4	02	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6069	2	2	0	4	4	4	4	4	4	4	4	4	01	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6070	1	2	0	3	4	4	4	4	4	4	3	3	02	4	01	2	0	2	0	1	4	2	0	4	4	2	0	4	4
6071	1	2	0	4	4	3	4	4	3	4	4	4	02	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6071	2	2	0	4	4	4	4	4	4	4	4	4	02	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6072	1	2	0	4	5	4	4	4	3	4	4	4	01	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6073	1	2	0	4	5	4	5	5	4	5	5	5	01	4	02	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6074	1	2	0	4	4	4	9	4	4	4	4	4	01	5	03	2	0	2	0	2	5	2	0	5	5	2	0	5	5
6075	1	2	0	4	4	4	4	4	4	4	4	4	01	5	01	2	0	2	0	2	5	2	0	5	5	2	0	5	5
6076	1	2	0	4	4	3	4	4	4	4	3	3	04	3	08	2	0	2	0	2	3	2	0	4	4	2	0	4	4
6076	2	2	0	3	4	3	3	3	4	3	3	3	02	3	04	2	0	2	0	1	3	2	0	4	3	2	0	3	4
6076	3	2	0	4	4	3	4	4	3	4	4	4	01	3	01	2	0	2	0	1	3	2	0	3	3	2	0	3	3
6077	1	1	1	4	4	4	9	4	4	4	4	3	01	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6077	2	2	0	4	4	4	9	3	4	4	4	4	02	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6077	3	1	1	3	4	3	9	2	3	4	4	4	01	3	01	2	0	2	0	2	3	2	0	3	3	2	0	3	2
6078	1	2	0	5	5	5	5	5	5	5	5	5	01	5	01	2	0	2	0	2	5	2	0	5	5	2	0	5	5
6079	1	2	0	4	5	5	4	4	4	4	5	5	01	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6079	2	2	0	4	4	4	4	4	4	5	5	5	01	4	01	2	0	2	0	2	3	2	0	3	3	2	0	3	3
6079	3	2	0	4	4	4	3	3	4	4	4	4	01	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6080	1	2	0	4	4	4	4	4	4	4	5	5	01	4	04	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6080	2	2	0	5	5	5	5	5	5	5	5	5	01	5	01	2	0	2	0	2	5	2	0	5	5	2	0	5	5
6081	1	2	0	4	4	4	9	4	4	4	4	4	02	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6082	1	2	0	4	4	4	4	4	4	4	4	4	02	5	02	2	0	2	0	2	5	2	0	5	5	2	0	5	5
6082	3	2	0	4	4	4	4	4	4	4	4	4	01	5	01	2	0	2	0	2	5	2	0	5	5	2	0	5	5
6083	1	2	0	4	4	4	4	4	4	4	4	4	01	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6083	5	2	0	4	4	4	4	4	4	4	4	4	01	5	01	2	0	2	0	2	5	2	0	5	5	2	0	5	5
6083	6	2	0	4	4	4	4	4	4	4	4	4	01	5	01	2	0	2	0	2	5	2	0	5	5	2	0	5	5
6083	7	2	0	4	4	4	4	4	3	4	4	4	01	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6083	8	2	0	4	4	4	4	4	4	4	4	4	01	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6083	9	2	0	4	4	4	4	4	4	4	4	4	01	5	02	2	0	2	0	2	5	2	0	5	5	2	0	5	5
6084	1	2	0	4	4	4	4	4	4	4	4	4	02	5	01	2	0	2	0	2	5	2	0	5	5	2	0	5	5
6084	2	2	0	3	4	4	4	4	4	3	3	3	01	4	01	2	0	2	0	2	3	2	0	4	3	2	0	4	3
6084	3	2	0	4	4	4	4	4	4	4	4	4	01	5	01	2	0	2	0	2	5	2	0	5	5	2	0	5	5
6084	4	2	0	4	4	4	4	4	4	4	4	4	02	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6085	1	2	0	4	4	4	4	4	4	4	4	4	01	5	02	2	0	2	0	2	5	2	0	5	5	2	0	5	5
6085	2	2	0	5	5	5	5	5	5	5	5	5	01	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6085	3	2	0	5	5	5	4	5	5	5	5	5	03	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4

APPENDIX I

DRIVEABILITY EVALUATION RESULTS FOR INDIVIDUAL VEHICLES

DETROIT

MANUFACTURER: GM

VEH NO.	TEST NO.	CONSTANT SPEED PHASE (OVER THE ROAD)							ACCELERATION FROM STOP PHASE (OVER THE ROAD)				RESTART PHASE		COLD START AND IDLE PHASE (DYNAMOMETER)							DRIVE AWAY PHASE (DYNAMOMETER)							
		1	1A	2	3	4	5	5A	6	7	8	9	10	11	12	13	13A	14	14A	15	16	17	17A	18	19	20	20A	21	22
6086	1	2	0	4	4	4	4	4	4	4	4	4	01	2	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6087	1	2	0	5	5	5	9	4	5	5	5	5	01	5	04	2	0	2	0	2	3	2	0	5	4	2	0	5	5
6087	2	2	0	5	5	5	9	5	5	5	5	5	01	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6087	3	2	0	4	4	5	9	4	4	3	4	4	01	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6088	1	2	0	5	5	5	5	5	5	5	5	5	01	5	01	2	0	2	0	2	5	2	0	5	5	2	0	5	5
6088	2	2	0	4	4	4	4	4	4	4	4	4	01	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6089	1	2	0	4	4	4	4	4	4	4	4	4	02	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6089	3	2	0	4	4	4	4	4	4	4	4	4	01	4	02	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6090	1	2	0	4	4	4	4	4	4	4	4	4	01	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6090	5	2	0	4	4	4	4	4	4	4	4	4	01	4	02	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6090	6	2	0	4	4	4	3	4	4	4	4	4	01	5	01	2	0	2	0	2	5	2	0	5	5	2	0	5	5
6090	7	2	0	4	4	4	4	4	4	4	4	4	01	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6090	8	2	0	3	4	3	3	3	3	3	3	3	01	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6090	9	2	0	5	5	5	4	4	5	5	5	5	01	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6091	1	2	0	4	4	4	4	4	4	4	4	4	01	4	02	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6091	2	2	0	3	4	4	4	4	4	4	4	4	01	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6091	5	2	0	4	4	4	3	3	4	4	4	4	01	3	01	2	0	2	0	2	3	2	0	4	3	2	0	4	3
6091	6	2	0	4	4	4	4	4	4	4	4	4	01	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6091	7	2	0	4	4	4	4	4	4	4	4	4	04	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6091	8	2	0	5	4	4	4	4	5	5	5	5	01	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6091	9	2	0	5	5	5	4	4	5	5	5	5	01	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6092	1	2	0	4	4	4	4	4	4	4	4	4	01	4	01	2	0	1	1	2	4	2	0	4	4	2	0	4	4
6092	2	2	0	5	5	5	4	4	5	5	5	5	01	5	01	2	0	2	0	2	5	2	0	5	5	2	0	5	5
6093	1	2	0	4	4	4	3	4	4	4	4	4	01	5	01	2	0	2	0	2	5	2	0	5	5	2	0	5	5
6093	2	2	0	4	4	4	4	4	4	4	4	4	01	5	01	2	0	1	1	2	5	2	0	5	5	2	0	5	5
6094	1	2	0	4	4	4	4	4	4	3	3	3	01	5	00	2	0	2	0	2	5	2	0	5	5	2	0	5	5
6095	1	2	0	4	4	4	4	4	4	4	4	4	01	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6096	1	1	1	3	4	3	9	4	3	3	4	4	02	3	01	2	0	2	0	1	3	2	0	3	3	2	0	3	4
6096	3	2	0	3	4	3	9	4	4	4	3	3	01	3	02	2	0	2	0	1	2	2	0	3	3	2	0	4	4
6097	1	2	0	4	4	4	4	4	4	4	4	4	01	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6097	2	2	0	3	4	3	3	3	3	3	3	3	02	4	02	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6098	1	2	0	4	4	4	9	4	4	4	4	4	04	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6098	3	2	0	3	4	4	4	4	3	4	4	4	01	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6099	1	2	0	4	4	4	4	4	4	4	4	4	01	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6099	2	2	0	4	4	4	4	4	4	4	4	4	01	4	01	2	0	2	0	2	4	1	1	4	4	2	0	4	4
6099	3	2	0	4	4	4	3	4	4	4	4	4	02	5	01	2	0	2	0	2	5	2	0	5	5	2	0	5	5
6099	4	2	0	4	4	4	4	4	4	4	4	4	01	4	01	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6100	1	2	0	4	4	4	4	4	4	4	4	4	02	4	01	2	0	2	0	1	4	2	0	3	4	2	0	3	4
6100	2	2	0	4	4	4	4	4	4	4	4	4	01	4	02	2	0	2	0	2	4	2	0	4	4	2	0	4	4
6100	3	2	0	4	4	4	4	4	4	4	4	4	01	4	01	2	0	2	0	1	4	2	0	4	4	2	0	4	4

Appendix J

VEHICLE MANUFACTURER CORRELATION VEHICLE TEST RESULTS

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VEHICLE MANUFACTURER CORRELATION VEHICLE TEST RESULTS

TEST NO.	HC g/m	CO g/m	CO_2 g/m^2	NO_x g/m^x	F.E. MPG	MANUFACTURER	TEST	DATE
1	0.411	3.57	665	2.48	-	Chrysler	505 Hot-Start FTP	8/11/76
2	.395	3.60	661	2.43	-	Chrysler	505 Hot-Start FTP	8/11/76
3	.386	3.38	670	2.42	-	Chrysler	505 Hot-Start FTP	8/11/76
Average	.397	3.52	665	2.44	-	Chrysler	505 Hot-Start FTP	Corr. Veh.
1	0.914	1.76	557	2.69	15.8	Ford	Cold-Start FTP	1/13/77
2	0.911	1.92	562	2.39	15.6	Ford	Cold-Start FTP	1/14/77
3	0.886	1.76	562	2.48	15.6	Ford	Cold-Start FTP	1/15/77
4	0.862	1.62	553	2.68	15.9	Ford	Cold-Start FTP	1/17/77
5	0.825	1.26	557	2.44	15.8	Ford	Cold-Start FTP	1/19/77
6	0.858	1.35	558	2.51	15.8	Ford	Cold-Start FTP	1/20/77
Average	0.876	1.61	558	2.53	15.8	Ford	Cold-Start FTP	T304 Veh.
1	5.13	76.2	1966	14.0	-	G.M.	505 Hot-Start	4/4/77
2	5.79	68.6	2020	15.0	-	G.M.	505 Hot-Start	4/4/77
3	5.43	68.2	1955	13.8	-	G.M.	505 Hot-Start	4/4/77
4	5.42	62.6	1967	13.9	-	G.M.	505 Hot-Start	4/4/77
Average	5.44	68.9	1977	14.2	-	G.M.	505 Hot-Start	Corr. Veh.
1	4.15	61.2	1661	10.4	-	G.M.	505 Hot-Start	8/31/77
2	5.33	76.6	2057	12.9	-	G.M.	505 Hot-Start	8/31/77
3	4.54	61.6	1760	11.1	-	G.M.	505 Hot-Start	8/31/77
Average	4.67	66.5	1826	11.5	-	G.M.	505 Hot-Start	REPCA Veh.

Appendix K

SUPPORT DATA FOR TABLES 3 AND 4

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TABLE 3 AND 4 DATA

VEH NO.	PASS TEST	HC A/R	HC PASS	CO A/R	CO PASS	NOXC A/R	NOXC PASS	MPG.FTP A/R	MPG.FTP PASS	MPG.HFET A/R	MPG.HFET PASS
					CHRYSLER CORP.						
1	3.	1.85	1.45	15.53	6.93	2.70	2.53	14.64	15.29	20.27	20.75
2	3.	1.60	.64	28.18	5.19	4.09	2.95	17.18	17.89	21.95	22.13
3	1.	1.25	1.25	10.58	10.58	2.39	2.39	17.28	17.28	24.24	24.24
4	3.	1.26	.92	6.95	4.15	3.34	3.07	18.09	18.67	23.46	23.73
5	3.	2.57	1.09	35.42	8.29	1.79	2.53	16.90	18.02	22.43	23.24
6	4.	4.04	1.82	59.89	7.10	2.73	3.07	13.87	14.29	19.29	19.06
7	3.	2.96	1.40	52.73	5.76	5.51	1.98	14.84	15.42	21.55	20.71
8	1.	1.35	1.35	6.99	6.99	2.82	2.82	14.62	14.62	20.04	20.04
9	2.	1.02	.99	16.57	12.18	3.02	2.94	11.28	11.28	18.55	18.61
10	3.	2.47	.39	71.35	3.81	2.28	2.49	11.99	12.41	18.34	18.88
11	4.	4.22	1.95	51.32	7.77	2.01	2.81	11.84	14.03	19.91	19.40
12	4.	.69	.47	9.67	6.46	3.84	3.43	11.57	11.80	17.51	18.17
13	3.	1.40	.65	41.03	8.40	1.71	2.77	11.60	13.09	19.84	19.99
14	1.	1.20	1.20	11.70	11.70	2.61	2.61	17.17	17.17	25.28	25.28
15	4.	1.72	1.41	9.41	6.35	4.09	3.41	17.19	17.78	22.58	22.30
16	1.	1.10	1.10	10.72	10.72	1.64	1.64	23.33	23.33	27.16	27.16
17	2.	1.07	.94	8.95	3.14	2.21	2.57	18.46	19.07	25.10	25.04
18	3.	2.21	.67	40.11	3.70	2.43	2.38	18.78	20.77	25.79	26.67
19	2.	1.89	1.41	32.34	14.03	3.03	2.96	17.45	17.49	21.04	21.47
20	1.	1.26	1.26	7.10	7.10	2.03	2.03	13.66	13.66	18.51	18.51
21	4.	2.64	1.42	37.97	6.38	1.72	1.83	14.46	15.57	20.25	20.25
22	4.	1.83	.94	26.14	5.93	3.36	3.54	18.36	19.01	24.78	24.83
23	3.	3.22	1.25	52.22	1.95	2.59	2.53	13.50	14.15	18.83	18.77
24	2.	1.25	1.50	4.40	8.56	3.20	3.09	13.66	13.91	19.41	20.04
25	3.	2.52	.55	81.17	4.04	2.36	3.05	11.36	15.56	17.86	19.30
26	3.	1.77	1.14	38.71	12.95	1.84	1.66	10.96	11.20	17.77	18.14
27	4.	2.20	1.14	30.24	4.93	3.78	4.21	18.15	19.81	23.82	25.25
28	3.	1.17	.51	31.27	4.94	2.54	1.79	11.74	12.33	20.47	19.59
29	1.	1.18	1.18	7.27	7.27	2.69	2.69	17.25	17.25	22.95	22.95
30	4.	1.56	1.15	49.01	25.86	1.81	1.93	11.15	11.52	17.77	17.41
31	2.	.56	.49	5.50	6.28	4.49	2.76	13.51	13.30	20.38	20.64
32	1.	.91	.91	4.55	4.55	2.02	2.02	10.79	10.79	17.85	17.85
33	4.	1.48	.61	57.16	10.55	2.17	2.57	9.99	10.16	15.12	14.95
AVG. LEVEL		1.80	1.07	28.85	7.71	2.75	2.64	14.75	15.39	20.91	21.07
NUMBER		33.	33.	33.	33.	33.	33.	33.	33.	33.	33.

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TABLE 3 AND 4 DATA

VEH NO.	PASS TEST	HC A/R	HC PASS	CO A/R	CO PASS	NOXC A/R	NOXC PASS	MPG.FTP A/R	MPG.FTP PASS	MPG.HFET A/R	MPG.HFET PASS
					FORD MOTOR CO.						
34	2.	.71	.81	3.38	3.12	1.78	2.96	22.54	22.59	32.68	32.47
35	1.	.93	.93	4.44	4.44	2.20	2.20	16.98	16.98	23.78	23.78
36	1.	.41	.41	1.16	1.16	1.80	1.80	20.45	20.45	28.13	28.13
37	2.	.57	.56	2.27	1.40	1.12	1.60	18.24	19.91	26.81	28.48
38	1.	.89	.89	7.52	7.52	2.10	2.10	17.58	17.58	23.92	23.92
39	1.	.67	.67	1.11	1.11	1.97	1.97	15.90	15.90	21.37	21.37
40	1.	.64	.64	1.86	1.86	1.69	1.69	15.21	15.21	20.26	20.26
41	1.	.64	.64	2.67	2.67	2.80	2.80	17.98	17.98	25.33	25.33
42	1.	.61	.61	1.83	1.83	1.15	1.15	16.28	16.28	21.96	21.96
43	1.	.62	.62	.80	.80	2.12	2.12	14.66	14.66	19.48	19.48
44	3.	1.33	1.41	5.16	1.89	3.34	3.10	14.33	15.47	20.36	21.35
45	1.	1.30	1.30	5.72	5.72	2.42	2.42	13.44	13.44	19.27	19.27
46	4.	2.58	.44	51.35	3.96	4.84	1.72	12.96	14.18	18.42	19.18
47	4.	1.38	1.39	20.49	7.17	2.79	3.55	13.58	12.96	19.48	17.20
48	4.	2.77	1.51	27.93	9.85	3.32	3.63	13.82	14.07	18.44	19.96
49	4.	1.58	1.52	25.18	8.69	3.74	4.04	12.78	13.05	18.71	18.98
50	1.	1.45	1.45	7.52	7.52	2.94	2.94	13.44	13.44	19.77	19.77
51	1.	1.35	1.35	11.40	11.40	2.61	2.61	12.99	12.99	19.13	19.13
52	1.	.87	.87	2.16	2.16	2.49	2.49	11.70	11.70	15.69	15.69
53	1.	.71	.71	4.39	4.39	2.74	2.74	11.98	11.98	17.77	17.77
54	1.	.77	.77	4.15	4.15	2.60	2.60	12.46	12.46	19.10	19.10
55	3.	1.20	.97	2.90	3.50	2.03	1.83	11.52	12.88	15.76	16.02
56	2.	.60	.66	9.36	4.89	.85	1.50	10.03	10.55	15.19	15.73
57	1.	.72	.72	8.25	8.25	1.99	1.99	10.54	10.54	16.04	16.04
58	1.	.68	.68	1.98	1.98	1.28	1.28	14.35	14.35	18.85	18.85
59	4.	1.28	1.17	2.10	2.18	4.37	3.06	13.87	14.88	19.56	19.33
60	2.	4.35	.73	53.84	1.21	4.43	1.93	14.37	14.90	19.11	18.62
61	4.	1.38	1.27	34.01	6.89	2.46	3.42	12.42	13.44	18.68	19.46
62	4.	2.16	1.90	13.96	8.89	2.76	3.23	13.30	12.89	18.88	18.74
63	1.	.86	.86	4.97	4.97	2.04	2.04	11.58	11.58	17.13	17.13
64	2.	.92	.83	6.44	6.59	1.48	1.37	11.73	11.89	17.26	17.35
65	1.	.47	.47	3.25	3.25	2.03	2.03	11.40	11.40	16.28	16.28
66	1.	.52	.52	5.42	5.42	2.07	2.07	10.54	10.54	16.14	16.14
AVG. LEVEL		1.15	.92	10.27	4.57	2.43	2.36	14.09	14.34	19.96	20.07
NUMBER		33.	33.	33.	33.	33.	33.	33.	33.	33.	33.

TABLE 3 AND 4 DATA

VEH NO.	PASS TEST	HC A/R	HC PASS	CO A/R	CO PASS	NOxC A/R	NOxC PASS	MPG,FTP A/R	MPG,FTP PASS	MPG,HFET A/R	MPG,HFET PASS
					GENERAL MOTORS						
67	3.	.50	.50	4.04	3.68	3.23	2.96	18.38	19.17	25.31	26.05
68	1.	.54	.54	7.33	7.33	3.07	3.07	16.67	16.67	22.92	22.92
69	2.	.50	.56	3.99	7.93	5.00	2.31	13.93	12.64	20.34	18.99
70	1.	.48	.48	5.89	5.89	2.29	2.29	12.50	12.50	17.52	17.52
71	2.	.43	.52	3.62	2.16	1.67	1.99	10.54	11.16	16.31	16.36
72	1.	1.23	1.23	11.11	11.11	1.72	1.72	11.30	11.30	15.68	15.68
73	1.	1.00	1.00	9.50	9.50	1.84	1.84	10.96	10.96	15.34	15.34
74	1.	.30	.30	4.93	4.93	1.95	1.95	28.44	28.44	35.42	35.42
75	1.	.51	.51	6.94	6.94	3.10	3.10	11.73	11.73	15.48	15.48
76	3.	1.53	.46	36.73	11.61	1.29	1.58	18.93	18.27	27.13	25.59
77	3.	2.07	.47	46.41	2.88	2.08	2.37	18.21	19.99	24.54	25.05
78	1.	.46	.46	1.98	1.98	2.77	2.77	14.85	14.85	21.27	21.27
79	3.	6.20	.44	111.69	2.05	1.75	2.59	13.37	15.93	20.65	21.71
80	2.	.68	.40	4.01	2.77	3.72	2.28	13.95	13.64	17.79	17.80
81	1.	.55	.55	4.61	4.61	2.70	2.70	14.87	14.87	19.03	19.03
82	3.	.74	.52	7.30	4.53	3.28	3.11	15.42	16.27	21.73	21.65
83	1.	.66	.66	7.36	7.36	1.91	1.91	13.40	13.40	19.10	19.10
84	4.	4.07	1.83	138.85	54.95	1.43	1.19	11.85	12.64	17.94	17.15
85	3.	1.68	.37	40.83	6.16	3.42	2.20	11.77	13.68	17.77	18.61
86	1.	.58	.58	11.70	11.70	1.67	1.67	13.07	13.07	17.44	17.44
87	3.	1.98	.61	52.53	12.15	2.00	2.10	12.23	12.41	17.25	19.32
88	2.	.35	.35	3.30	4.10	3.06	2.73	13.24	13.42	19.11	18.49
89	3.	1.53	.35	27.06	1.83	2.57	2.78	13.24	13.30	18.70	18.64
90	1.	.47	.47	4.88	4.88	2.16	2.16	14.58	14.58	19.38	19.38
91	2.	.62	.72	6.53	6.89	1.86	2.03	13.53	13.70	17.98	17.81
92	2.	.53	.46	1.03	1.02	2.10	2.59	16.20	15.77	21.31	20.51
93	2.	1.56	1.49	16.94	9.78	1.68	1.64	15.02	15.41	20.91	21.63
94	1.	.99	.99	10.30	10.30	2.22	2.22	12.10	12.10	17.41	17.41
95	1.	.53	.53	2.00	2.00	1.94	1.94	11.61	11.61	15.36	15.36
96	3.	.84	.45	17.84	6.17	2.08	1.94	20.30	20.94	28.31	28.74
97	2.	.34	.42	1.76	1.28	4.06	2.73	17.32	17.07	23.19	22.30
98	3.	.65	.58	6.13	5.46	3.32	3.14	13.38	13.97	19.51	19.00
99	4.	.92	.42	16.97	8.50	2.48	2.04	13.46	12.51	18.71	16.39
100	3.	2.60	.69	35.72	7.91	2.88	1.55	11.40	10.76	16.77	15.03
AVG. LEVEL		1.14	.62	19.76	7.42	2.48	2.27	14.46	14.67	20.08	19.95
NUMBER		34.	34.	34.	34.	34.	34.	34.	34.	34.	34.

TABLE 3 AND 4 DATA

VEH NO.	PASS TEST	HC A/R	HC PASS	CO A/R	CO PASS	NOxC A/R	NOxC PASS	MPG.FTP A/R	MPG.FTP PASS	MPG.HFET A/R	MPG.HFET PASS
ALL VEHICLES											
AVG. LEVEL		1.36	.86	19.63	6.58	2.55	2.42	14.43	14.80	20.31	20.36
NUMBER		100.	100.	100.	100.	100.	100.	100.	100.	100.	100.